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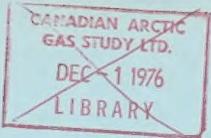


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# ENVIRONMENTAL ATLAS

FOOTHILLS PIPE LINES  
(YUKON) LTD.

CAT  
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- 76E51  
FOLIO



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## SERIES ONE

### BACKGROUND

The following maps depict areas and sites related to community development, highway commercial services and agriculture. Specifically, the maps show locations of existing and proposed development control zones, private lots, highway commercial service centers, agricultural reserves, grazing leases, commercial forestry, grazing land (Saskatchewan) and cultivated farm land (Saskatchewan).

In some instances, resource information was not precise, and the scale of the final maps may be too gross for accurate presentation of all data locations. In other cases, due to the minor nature of sites, the mapped information is not discussed fully in the Environmental Statement.

### INFORMATION SOURCES

Department of Environment. 1973. Land Use Information Series. Prepared for the Department of Indian and Northern Affairs.

Department of Northern Affairs and National Resources, Northern Administration and Land Branch Lands Division. 1957 to 1976. Land Use Information.

Department of Tourism and Information. 1976. Yukon Official Road Map. Prepared for the Government of the Yukon Territory.

Schultz and Company Ltd. 1976. Yukon Preliminary Environmental Impact Assessment of the Proposed Alcan Pipeline. Volume 1. Prepared for Gulf Interstate Engineering Company.

Slaney, F.F. and Company. 1976. Application of the Alcan Pipeline Company before the U.S. Federal Power Commission. Exhibit Z-1, Volumes 2 and 4.

Synergy West Ltd. 1974. Kluane Region Study. Prepared for the Yukon Territorial Government.

## SERIES TWO

### BACKGROUND

The following maps depict areas and sites related to airports, hydro facilities, communications, mining and petroleum, and fishing. Airports are mapped by type as either having limited or no facilities, all facilities, or as a water landing area. Hydro facilities mapped include existing and proposed power generating stations, and regional and local power distribution lines. The CN-CP pole and line communication is shown throughout the length of the proposed pipeline route. Mining data mapped illustrate sites of known claims, areas of exploration activity and existing mines. Petroleum pipelines are mapped where locations are known. Data relating to fishing shows known areas of commercial and domestic fishing.

Some resource data was not accurately scaled and relative locations may not be precisely mapped. Due to the lack of data, some sites discussed in the Environmental Statement may not be mapped. On the other hand, specific mapped data may appear on the map series but is not fully discussed in the accompanying report.

### INFORMATION SOURCES

CN-CP Telecommunications. 1976. Yukon communications line and repeater station locations.

Department of Environment. 1973. Land Use Information Series. Prepared for the Department of Indian and Northern Affairs.

Department of Northern Affairs and National Resources, Northern Administration and Lands Branch, Lands Division. 1957 to 1976. Land Use Information.

Northern Canada Power Commission. 1976. Aishihik power station and distribution lines.

Rand McNally and Company. 1970. Yukon Territory Road and Air Facilities Map.

Schultz and Company Ltd. 1976. Yukon Preliminary Environmental Impact Assessment of the Proposed Alcan Pipeline. Volume 1. Prepared for Gulf Interstate Engineering Company.

Slaney, F.F. and Company. 1976. Application of the Alcan Pipeline Company before the U.S. Federal Power Commission. Exhibit Z-1, Volumes 2 and Volume 4.

Yukon Electric. 1976. Yukon power distribution lines.

Fifth Northern Resources Conference. 1975. Hydro facilities.

## RECREATION

### BACKGROUND

The following map series records the location of sites and areas related to campgrounds, natural reserves, and parks. Campgrounds are mapped by site specific location while potential campgrounds and recreation areas are more generally located and rated according to their potential. Rating classifications, based on Department of Environment Land Directorate, are described in the Environmental Atlas. Natural reserves include the Kluane Game Sanctuary and a number of proposed International Biological Program (IBP) sites. Parks include the Kluane National Park Reserve, proposed Yukon Territorial Parks and the proposed Val Marie Grasslands Park, in Saskatchewan.

In the case of potential recreation sites, proposed Territorial Parks, and IBP sites, background data generally located sites under consideration. As well, the illustrated boundaries of the Kluane National Park Reserve, which have been generalized from existing data, are currently being officially surveyed.

### INFORMATION SOURCES

Bridge, R. 1976. The Camper's Guide to Alaska, the Yukon and Northern British Columbia.

Department of Environment. 1973. Land Use Information Series. Prepared for the Department of Indian and Northern Affairs.

Department of Tourism and Information. 1972. Yukon Official Road Map. Prepared for the Government of the Yukon Territory.

Department of Tourism and Renewable Resources. 1975. Regional Parks, Province of Saskatchewan.

Joint Federal-Provincial Committee. 1975. A Proposed Grasslands National Park.

Parks Canada. n.d. Discussions with Parks Canada staff in Winnipeg regarding Kluane National Park Reserve.

Schultz and Company Ltd. 1976. Preliminary Environmental Impact Assessment of the Proposed Alcan Pipeline. Volume 1. Prepared for Gulf Interstate Engineering Company.

Slaney, F.F. and Company. 1976. Application of the Alcan Pipeline Company before the U.S. Federal Power Commission. Exhibit Z-1, Volumes 2 and Volume 4.

Synergy West Ltd. 1974. Kluane Region Study. Prepared for the Yukon Territorial Government.

Fifth Northern Resources Conference. 1975. Proposed Territorial Parks.

## INFORMATION SOURCES

Department of Environment. 1973. Land Use Information Series. Prepared for the Department of Indian and Northern Affairs.

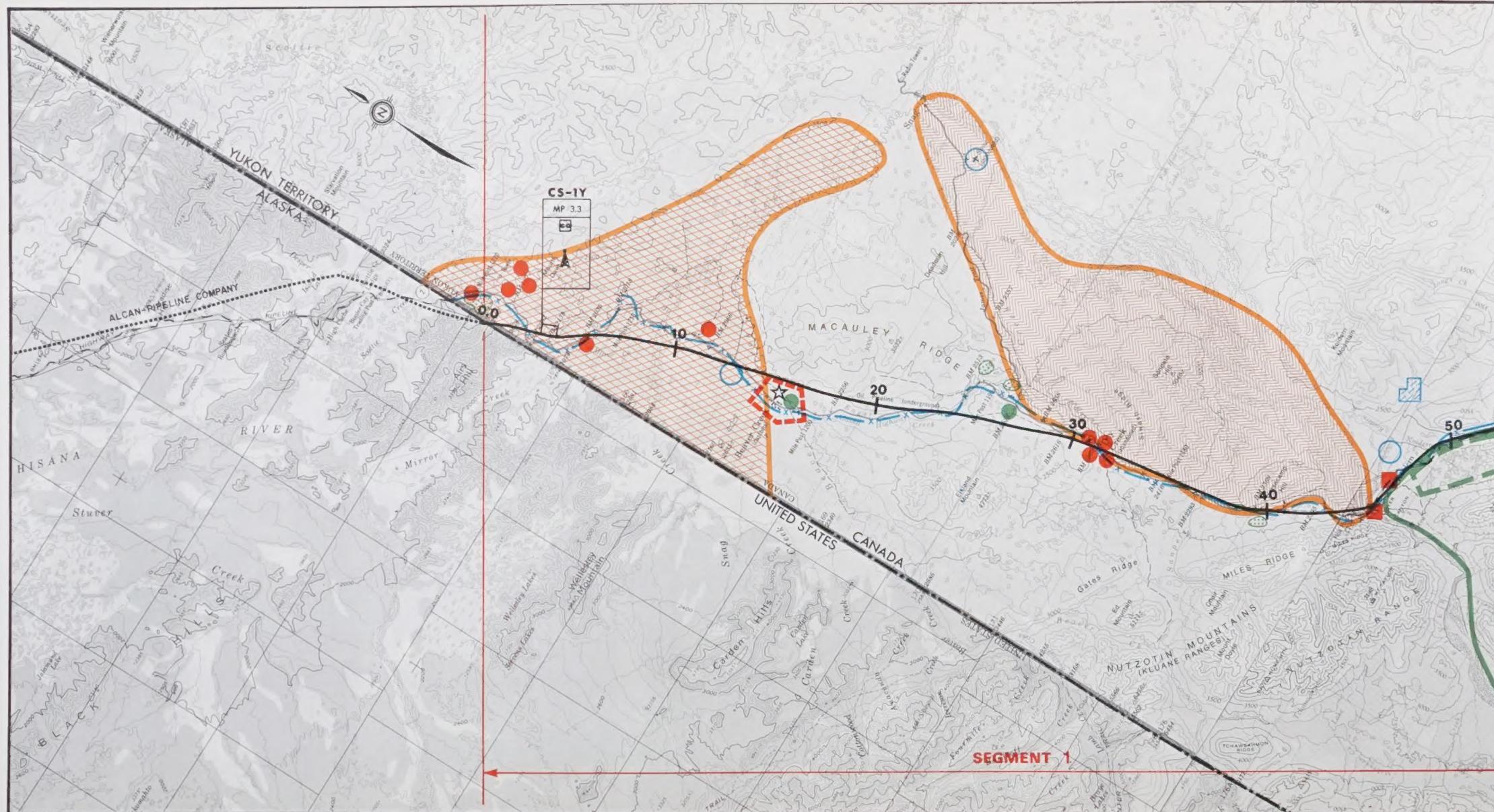
Schultz and Company Ltd. 1976. Yukon Preliminary Environmental Impact Assessment of the Proposed Alcan Pipeline. Volume 1. Prepared for Gulf Interstate Engineering Company.

Slaney, F.F. and Company. 1976. Application of the Alcan Pipeline Company before the U.S. Federal Power Commission. Exhibit Z-1, Volumes 2 and Volume 4.

## TRAPPING

The following map series generally locates predominant trapping areas in the Yukon. Following is the rating description used in classifying trapping areas into four types.

1. Prime Trapping Areas: Used extensively during winter and spring.
2. Regularly Used Areas: Used on a regular, but not intensive basis during winter and spring.
3. Irregularly Used Areas: Used lightly or only during specific times of the trapping season or to trap specific animals.
4. Reserved Areas: For the use by elderly or disabled persons. Due to the general nature of source data, the boundaries illustrated should be viewed as non-specific.

**LEGENDS****LAND USE and SPECIAL AREAS****SERIES ONE**

- PROPOSED EXISTING
- DEVELOPMENT CONTROL ZONE
- PRIVATE LOTS
- HIGHWAY COMMERCIAL SERVICES
- AGRICULTURAL RESERVES

- GRAZING LEASES
- COMMERCIAL FORESTRY
- GRAZING LAND (SASK.)
- CULTIVATED FARM LAND (SASK.)

**SERIES TWO**

- LIMITED OR NO FACILITIES
- ALL FACILITIES
- WATER LANDING
- CNT POLE LINE
- PROPOSED HYDRO FACILITY
- MINING CLAIM

- MINE
- COMMERCIAL FISHING
- DOMESTIC FISHING
- SODIUM SULPHATE PLANT (SASK.)
- EXISTING PIPELINE
- TRANSMISSION LINE

**RECREATION SERIES**

- CAMPGROUNDS
- POTENTIAL RECREATION
- IBP RESERVES (PROPOSED)
- KLUANE GAME SANCTUARY

- KLUANE NATIONAL PARK RESERVE
- PROPOSED TERRITORIAL PARKS
- PROPOSED VAL MARIE GRASSLANDS NATIONAL PARK

**TRAPPING SERIES**

- PRIME TRAPPING AREA (PTA)
- RESERVE FOR DISABLED AND AGED

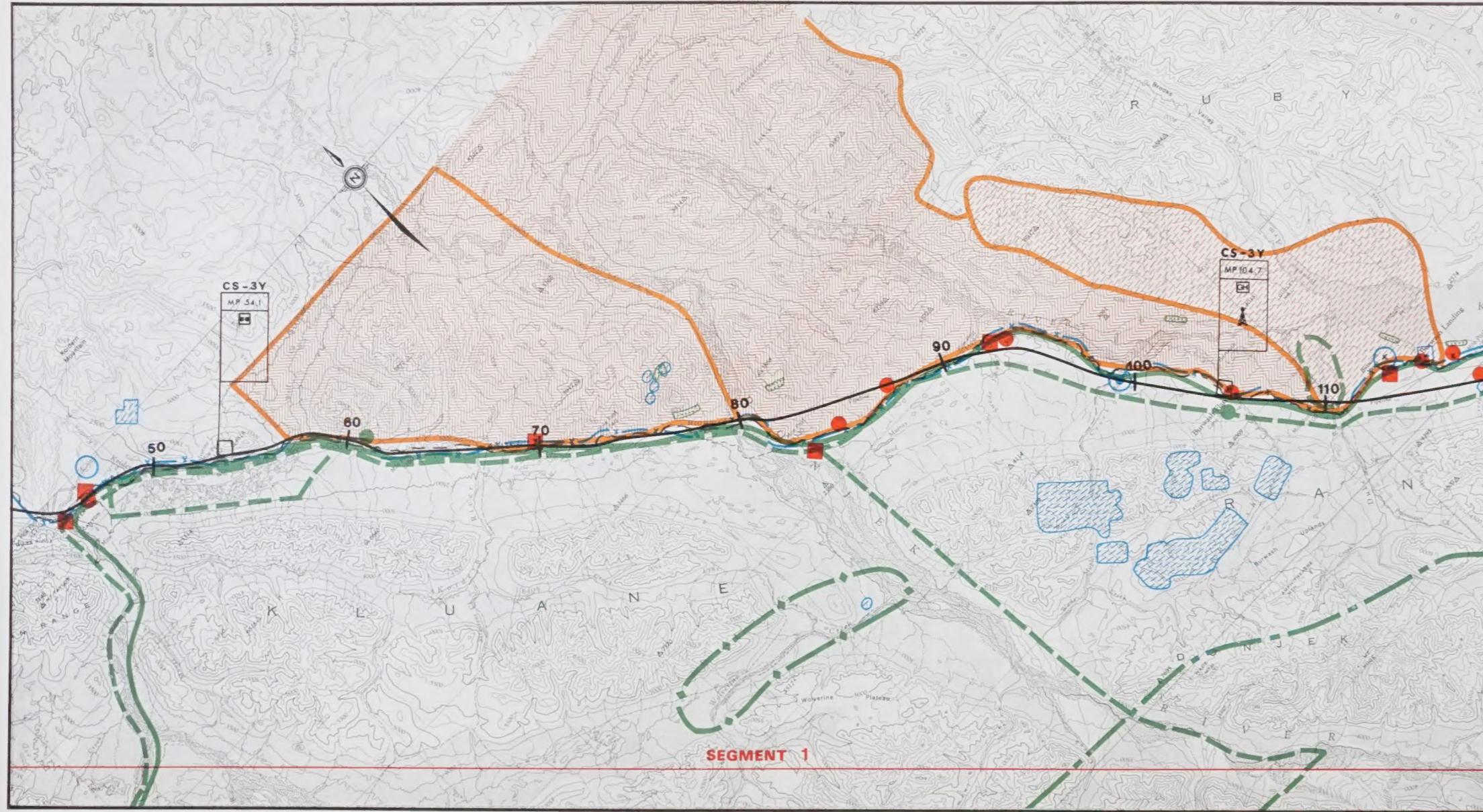
- REGULARLY USED AREA
- IRREGULARLY USED AREA

**Pipeline Legend**

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE

- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
**YUKON SECTION**

**LEGENDS****LAND USE and SPECIAL AREAS****SERIES ONE**

- DEVELOPMENT CONTROL ZONE
- PRIVATE LOTS
- HIGHWAY COMMERCIAL SERVICES
- AGRICULTURAL RESERVES



- GRAZING LEASES
- COMMERCIAL FORESTRY
- GRAZING LAND (SASK.)
- CULTIVATED FARM LAND (SASK.)

**SERIES TWO**

- LIMITED OR NO FACILITIES
- ALL FACILITIES
- WATER LANDING
- CNT POLE LINE
- PROPOSED HYDRO FACILITY
- MINING CLAIM



- MINE
- COMMERCIAL FISHING
- DOMESTIC FISHING
- SODIUM SULPHATE PLANT (SASK.)
- EXISTING PIPELINE
- TRANSMISSION LINE

**RECREATION SERIES**

- CAMPGROUNDS
- POTENTIAL RECREATION
- IBP RESERVES (PROPOSED)
- KLUANE GAME SANCTUARY



- KLUANE NATIONAL PARK RESERVE
- PROPOSED TERRITORIAL PARKS
- PROPOSED VAL MARIE GRASSLANDS NATIONAL PARK

**TRAPPING SERIES**

- PRIME TRAPPING AREA (PTA)
- RESERVE FOR DISABLED AND AGED



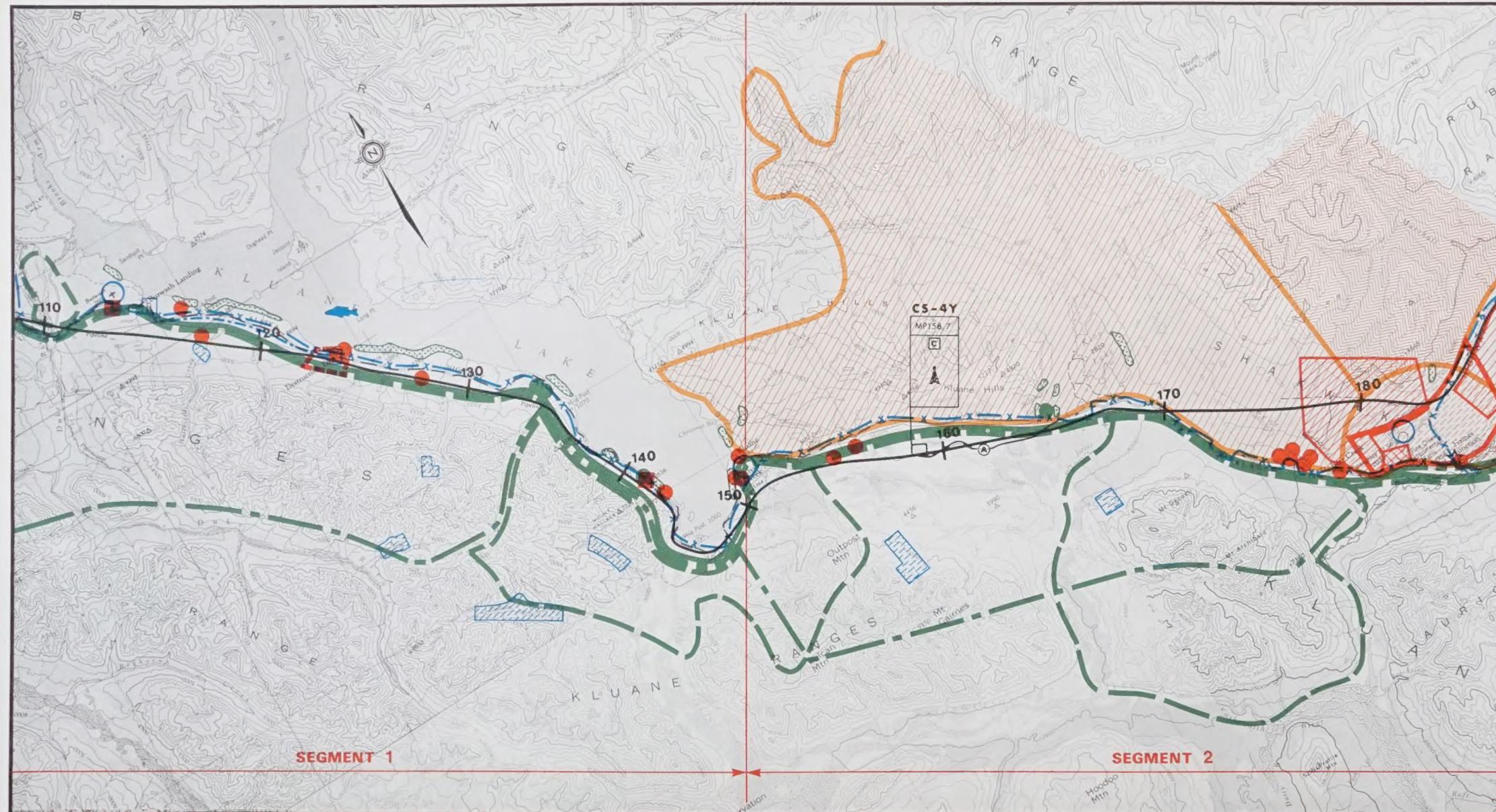
- REGULARLY USED AREA
- IRREGULARLY USED AREA

- Pipeline Legend**
- PROPOSED PIPELINE ROUTE
  - TELECOMMUNICATIONS BASE STATION
  - ACCESS ROAD
  - HEAD OFFICE
  - AREA OFFICE



- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****LAND USE and SPECIAL AREAS****SERIES ONE**

- PROPOSED DEVELOPMENT CONTROL ZONE
- EXISTING PRIVATE LOTS
- HIGHWAY COMMERCIAL SERVICES
- AGRICULTURAL RESERVES



- GRAZING LEASES
- COMMERCIAL FORESTRY
- GRAZING LAND (SASK.)
- CULTIVATED FARM LAND (SASK.)

**SERIES TWO**

- LIMITED OR NO FACILITIES
- ALL FACILITIES
- WATER LANDING
- CNT POLE LINE
- PROPOSED HYDRO FACILITY
- MINING CLAIM



- MINE
- COMMERCIAL FISHING
- DOMESTIC FISHING
- SODIUM SULPHATE PLANT (SASK.)
- EXISTING PIPELINE
- TRANSMISSION LINE

**RECREATION SERIES**

- CAMPGROUNDS
- POTENTIAL RECREATION
- IBP RESERVES (PROPOSED)
- KLUANE GAME SANCTUARY



- KLUANE NATIONAL PARK RESERVE
- PROPOSED TERRITORIAL PARKS
- PROPOSED VAL MARIE GRASSLANDS NATIONAL PARK

**TRAPPING SERIES**

- PRIME TRAPPING AREA (PTA)
- RESERVE FOR DISABLED AND AGED



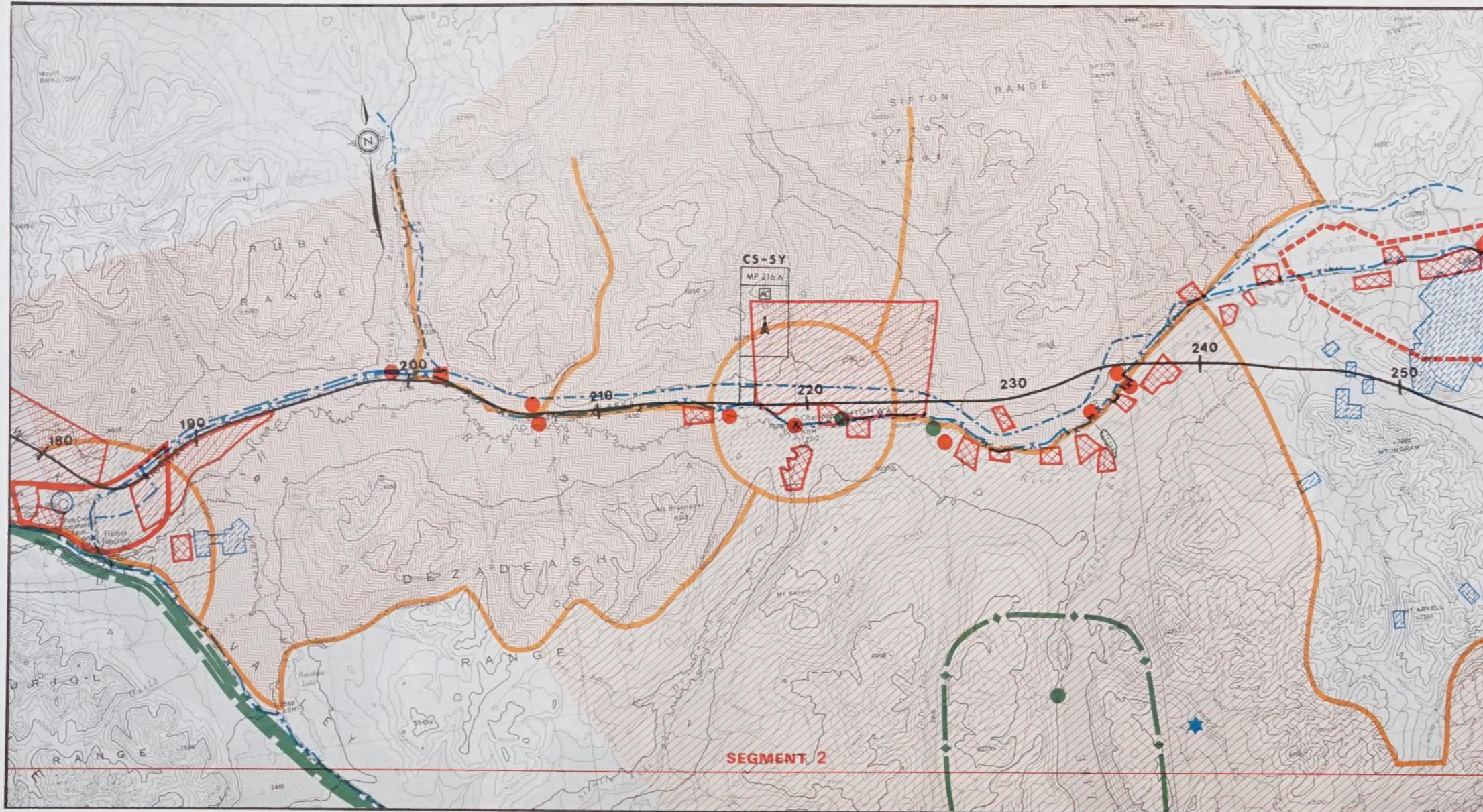
- REGULARLY USED AREA
- IRREGULARLY USED AREA

- PIPELINE LEGEND
- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE



- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****LAND USE and SPECIAL AREAS****SERIES ONE**

- DEVELOPMENT CONTROL ZONE
- PRIVATE LOTS
- HIGHWAY COMMERCIAL SERVICES
- AGRICULTURAL RESERVES

PROPOSED  
EXISTING

- Grazing Leases
- Commercial Forestry
- Grazing Land (Sask.)
- Cultivated Farm Land (Sask.)

**SERIES TWO**

- LIMITED OR NO FACILITIES
- ALL FACILITIES
- WATER LANDING
- CNT POLE LINE
- PROPOSED HYDRO FACILITY
- MINING CLAIM

- Mine
- Commercial Fishing
- Domestic Fishing
- Sodium Sulphate Plant (Sask.)
- Existing Pipeline
- Transmission Line

**RECREATION SERIES**

- CAMPGROUNDS
- POTENTIAL RECREATION
- IBP RESERVES (PROPOSED)
- KLUANE GAME SANCTUARY

- Kluane National Park Reserve
- Proposed Territorial Parks
- Proposed Val Marie Grasslands National Park

**TRAPPING SERIES**

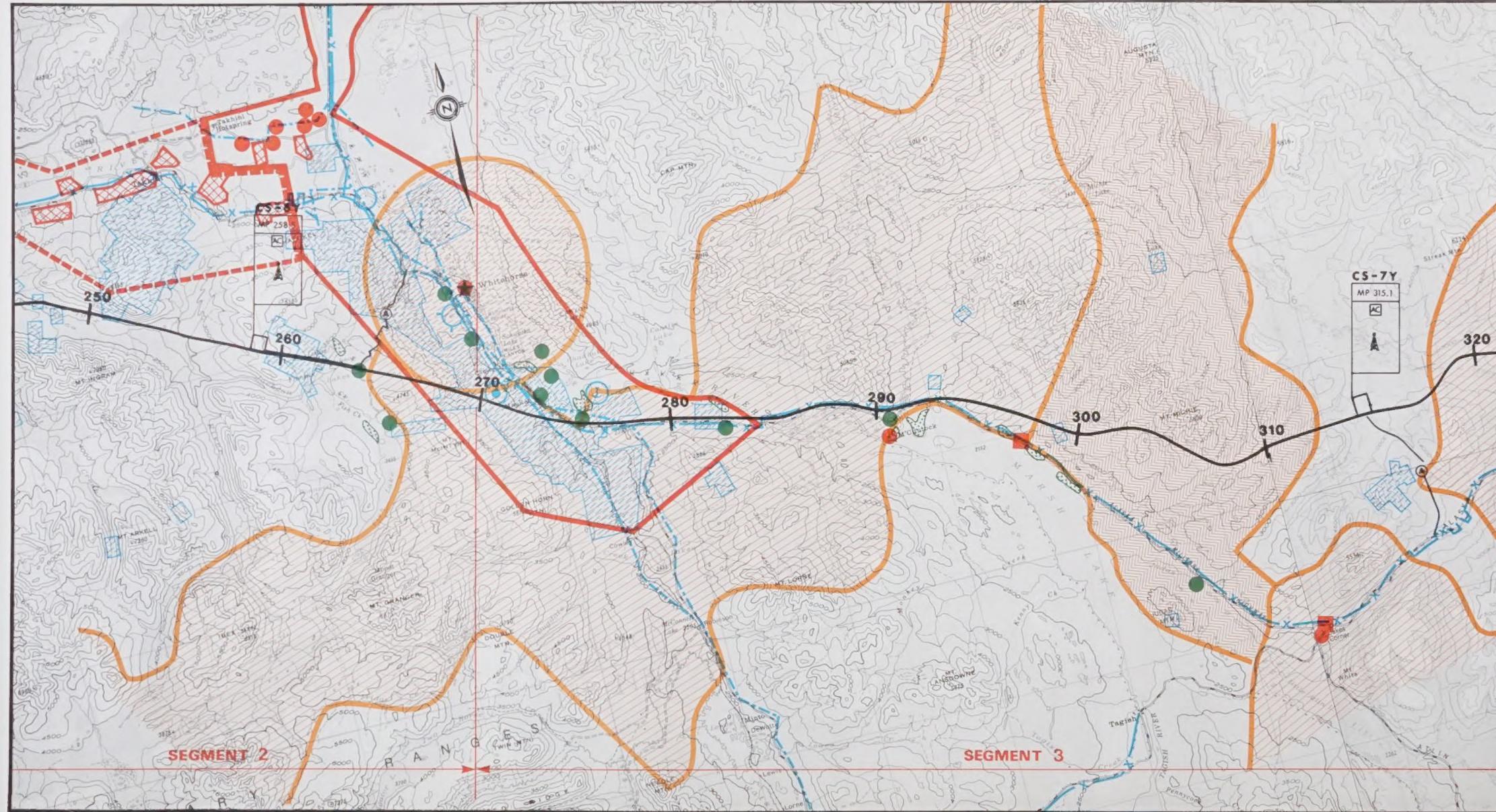
- PRIME TRAPPING AREA (PTA)
- RESERVE FOR DISABLED AND AGED

- Regularly Used Area
- Irregularly Used Area

- Pipeline Legend**
- PROPOSED PIPELINE ROUTE
  - TELECOMMUNICATIONS BASE STATION
  - ACCESS ROAD
  - HEAD OFFICE
  - AREA OFFICE

- Compressor Station
- Compressor Station with Chilling
- Compressor Station with Aerial Coolers
- Compressor Station with Gas Heater

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
**YUKON SECTION**



## LEGENDS

## **LAND USE and SPECIAL AREAS**

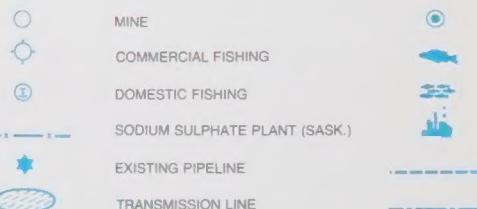
SERIES ONE

- DEVELOPMENT CONTROL ZONE  
PRIVATE LOTS  
HIGHWAY COMMERCIAL SERVICES  
AGRICULTURAL RESERVES



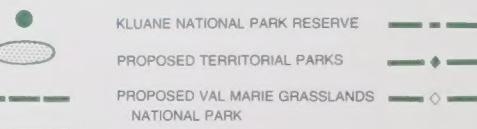
SERIES TWO

- LIMITED OR NO FACILITIES  
ALL FACILITIES  
WATER LANDING  
CNT POLE LINE  
PROPOSED HYDRO FACILITY  
MINING CLAIM



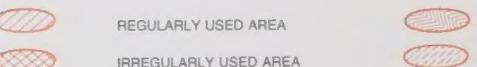
RECREATION SERIES

- The map illustrates the spatial distribution of various park and reserve types across the Yukon region. It includes labels for Kluane National Park Reserve, Proposed Territorial Parks, Proposed Val Marie Grasslands National Park, IBP Reserves (Proposed), Potential Recreation Areas, and Campgrounds. The map also shows the Yukon River and its tributaries.

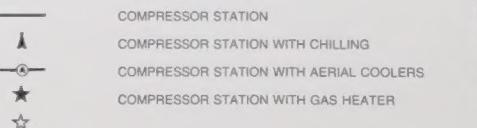


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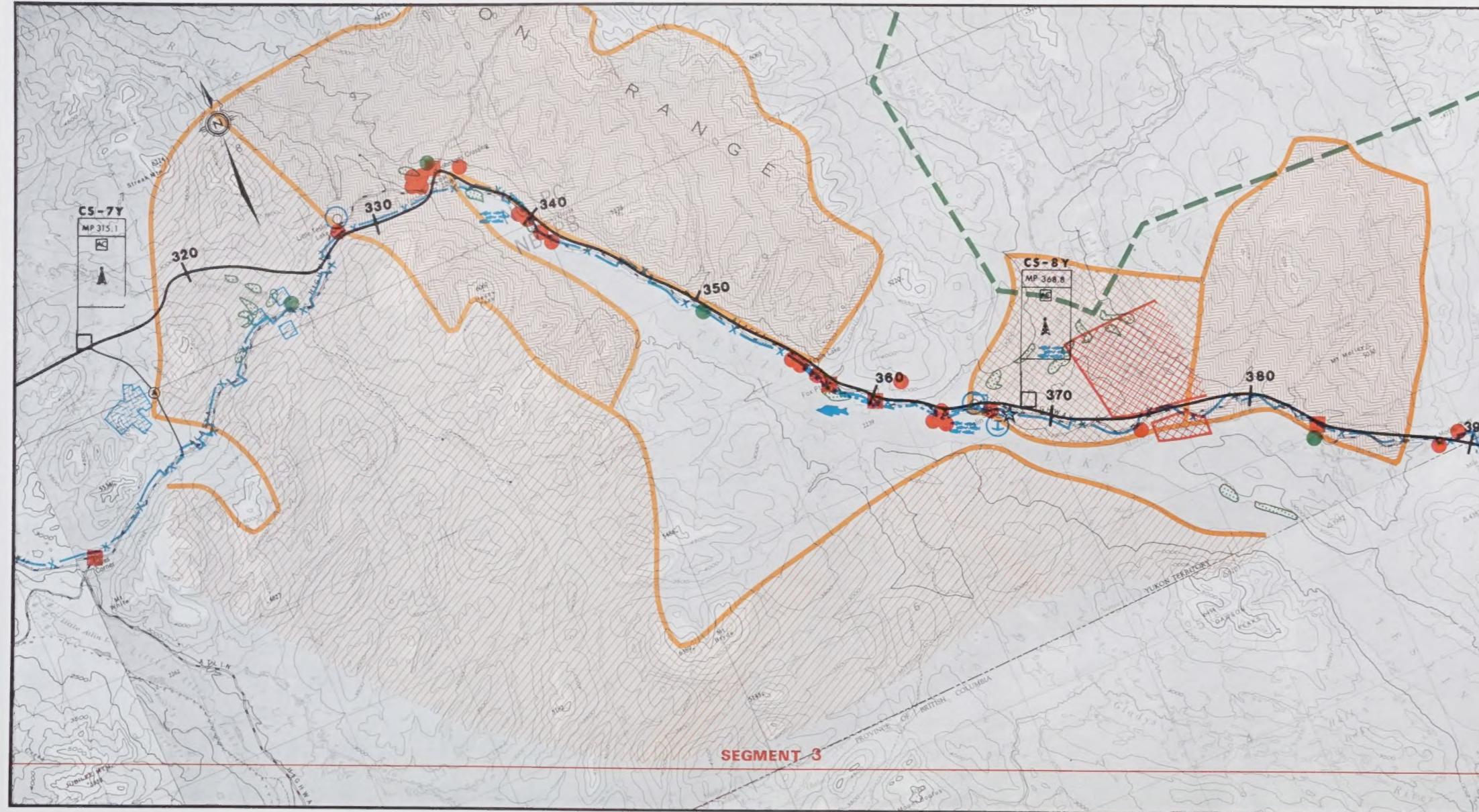
- PRIME TRAPPING AREA (PTA)**



- PROPOSED PIPELINE ROUTE  
TELECOMMUNICATIONS BASE STATION  
ACCESS ROAD  
HEAD OFFICE  
AREA OFFICE



# FOOTHILLS PIPE LINES (YUKON) LTD.

**LEGENDS****LAND USE and SPECIAL AREAS****SERIES ONE**

DEVELOPMENT CONTROL ZONE



GRAZING LEASES

COMMERCIAL FORESTRY

GRAZING LAND (SASK.)

CULTIVATED FARM LAND (SASK.)

**SERIES TWO**

LIMITED OR NO FACILITIES



MINE

ALL FACILITIES



COMMERCIAL FISHING

WATER LANDING



DOMESTIC FISHING

CNT POLE LINE



SODIUM SULPHATE PLANT (SASK.)

PROPOSED HYDRO FACILITY



EXISTING PIPELINE

MINING CLAIM



TRANSMISSION LINE

**RECREATION SERIES**

CAMPGROUNDS



KLUANE NATIONAL PARK RESERVE

POTENTIAL RECREATION



PROPOSED TERRITORIAL PARKS

IBP RESERVES (PROPOSED)



PROPOSED VAL MARIE GRASSLANDS

KLUANE GAME SANCTUARY



NATIONAL PARK

**TRAPPING SERIES**

PRIME TRAPPING AREA (PTA)



REGULARLY USED AREA

RESERVE FOR DISABLED AND AGED



IRREGULARLY USED AREA

**Pipeline Legend**

PROPOSED PIPELINE ROUTE



COMPRESSOR STATION

TELECOMMUNICATIONS BASE STATION



COMPRESSOR STATION WITH CHILLING

ACCESS ROAD



COMPRESSOR STATION WITH AERIAL COOLERS

HEAD OFFICE

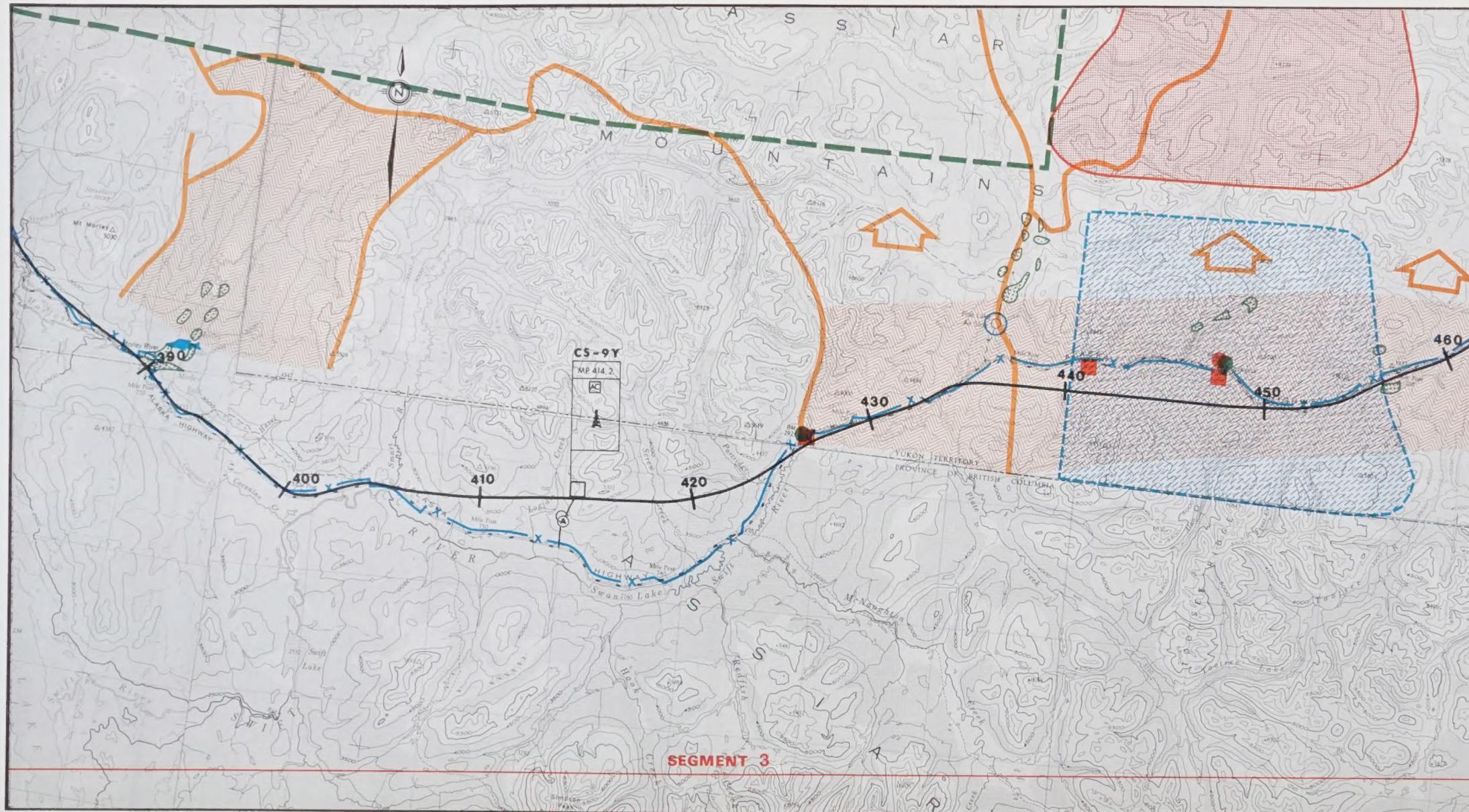


COMPRESSOR STATION WITH GAS HEATER

AREA OFFICE



**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****LAND USE and SPECIAL AREAS****SERIES ONE**

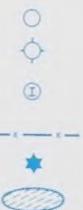
- DEVELOPMENT CONTROL ZONE
- PRIVATE LOTS
- HIGHWAY COMMERCIAL SERVICES
- AGRICULTURAL RESERVES



- GRAZING LEASES
- COMMERCIAL FORESTRY
- GRAZING LAND (SASK.)
- CULTIVATED FARM LAND (SASK.)

**SERIES TWO**

- LIMITED OR NO FACILITIES
- ALL FACILITIES
- WATER LANDING
- CNT POLE LINE
- PROPOSED HYDRO FACILITY
- MINING CLAIM



- MINE
- COMMERCIAL FISHING
- DOMESTIC FISHING
- SODIUM SULPHATE PLANT (SASK.)
- EXISTING PIPELINE
- TRANSMISSION LINE

**RECREATION SERIES**

- CAMPGROUNDS
- POTENTIAL RECREATION
- IBP RESERVES (PROPOSED)
- KLUANE GAME SANCTUARY



- KLUANE NATIONAL PARK RESERVE
- PROPOSED TERRITORIAL PARKS
- PROPOSED VAL MARIE GRASSLANDS
- NATIONAL PARK

**TRAPPING SERIES**

- PRIME TRAPPING AREA (PTA)
- RESERVE FOR DISABLED AND AGED



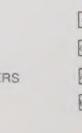
- REGULARLY USED AREA
- IRREGULARLY USED AREA

**Pipeline Legend**

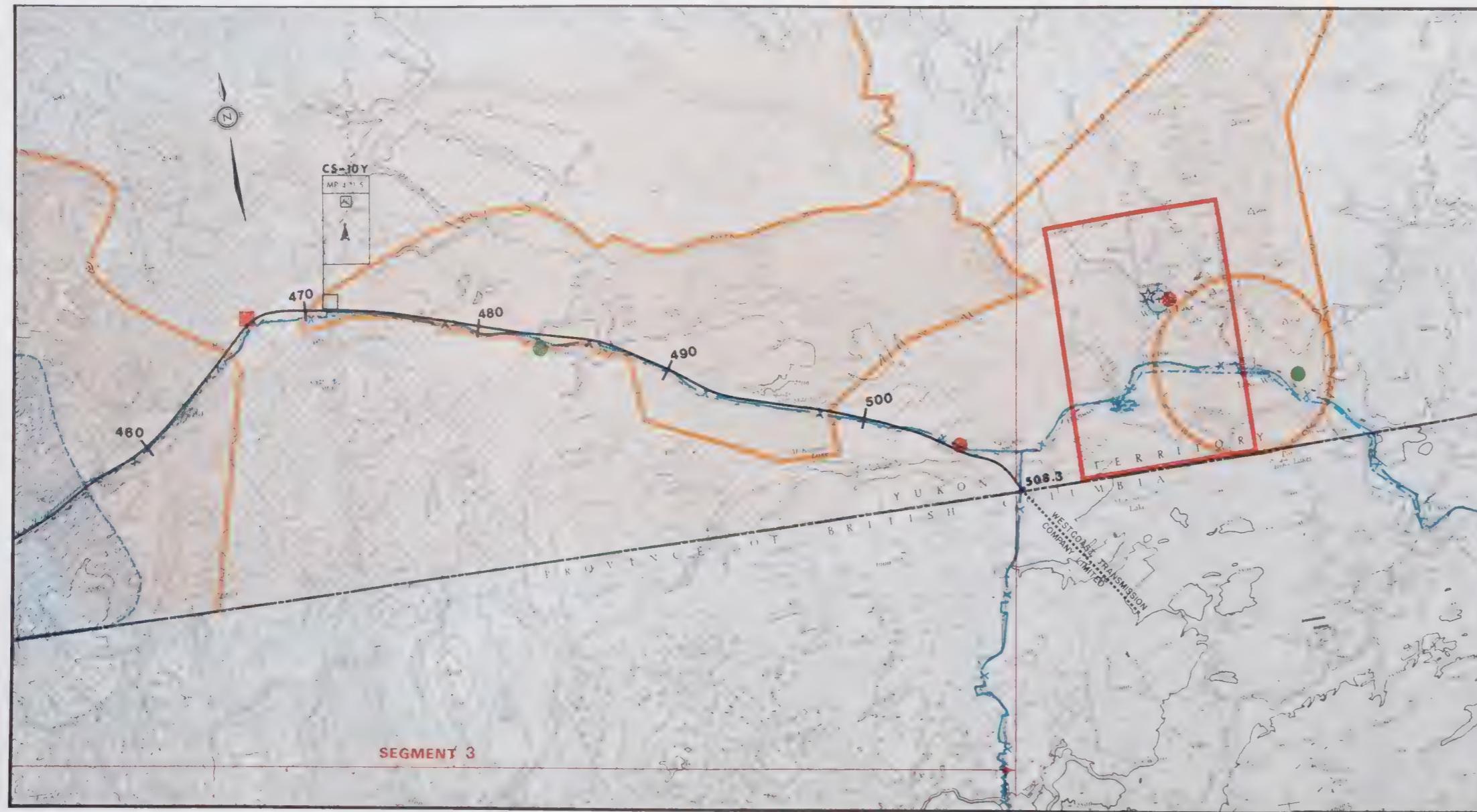
- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE



- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- COMPRESSOR STATION WITH GAS HEATER



**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****LAND USE and SPECIAL AREAS****SERIES ONE**

DEVELOPMENT CONTROL ZONE



GRAZING LEASES

PRIVATE LOTS



COMMERCIAL FORESTRY

HIGHWAY COMMERCIAL SERVICES



GRAZING LAND (SASK.)

AGRICULTURAL RESERVES



CULTIVATED FARM LAND (SASK.)

**SERIES TWO**

LIMITED OR NO FACILITIES



MINE

ALL FACILITIES



COMMERCIAL FISHING

WATER LANDING



DOMESTIC FISHING

CNT POLE LINE



SODIUM SULPHATE PLANT (SASK.)

PROPOSED HYDRO FACILITY



EXISTING PIPELINE

MINING CLAIM



TRANSMISSION LINE

**RECREATION SERIES**

CAMPGROUNDS



KLUANE NATIONAL PARK RESERVE

POTENTIAL RECREATION



PROPOSED TERRITORIAL PARKS

IBP RESERVES (PROPOSED)



PROPOSED VAL MARIE GRASSLANDS NATIONAL PARK

KLUANE GAME SANCTUARY

**TRAPPING SERIES**

PRIME TRAPPING AREA (PTA)



REGULARLY USED AREA

RESERVE FOR DISABLED AND AGED



IRREGULARLY USED AREA

**Pipeline Legend**

PROPOSED PIPELINE ROUTE



COMPRESSOR STATION

TELECOMMUNICATIONS BASE STATION



COMPRESSOR STATION WITH CHILLING

ACCESS ROAD



COMPRESSOR STATION WITH AERIAL COOLERS

HEAD OFFICE

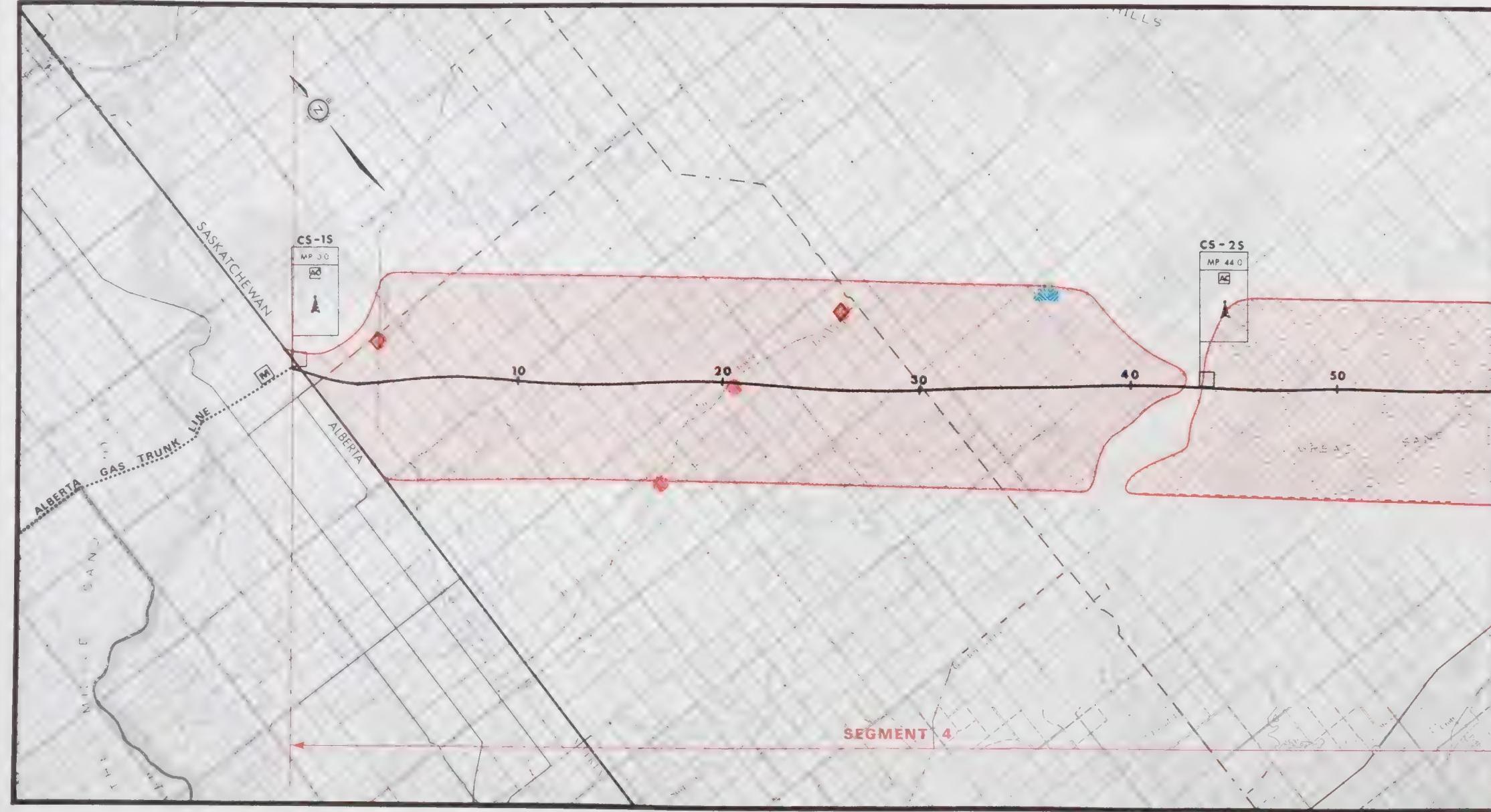


COMPRESSOR STATION WITH GAS HEATER

AREA OFFICE

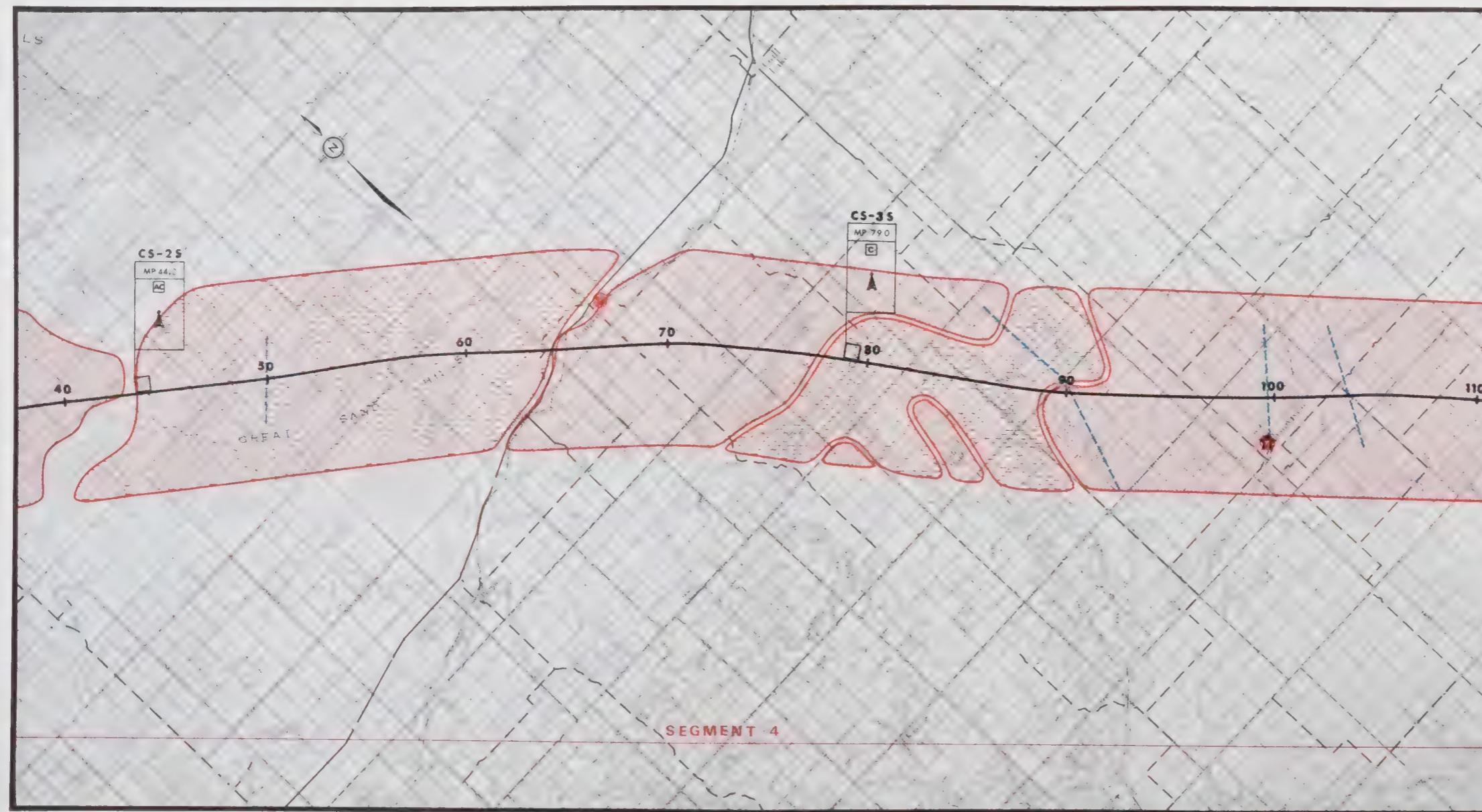


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YUKON SECTION



LEGENDS	
<b>LAND USE and SPECIAL AREAS</b>	
SERIES ONE	
DEVELOPMENT CONTROL ZONE	
PRIVATE LOTS	
HIGHWAY COMMERCIAL SERVICES	
AGRICULTURAL RESERVES	
SERIES TWO	
LIMITED OR NO FACILITIES	
ALL FACILITIES	
WATER LANDING	
CNT POLE LINE	
PROPOSED HYDRO FACILITY	
MINING CLAIM	
RECREATION SERIES	
CAMPGROUNDS	
POTENTIAL RECREATION	
IBP RESERVES (PROPOSED)	
KLUANE GAME SANCTUARY	
TRAPPING SERIES	
PRIME TRAPPING AREA (PTA)	
RESERVE FOR DISABLED AND AGED	
PIPELINE LEGEND	
PROPOSED PIPELINE ROUTE	
TELECOMMUNICATIONS BASE STATION	
ACCESS ROAD	
HEAD OFFICE	
AREA OFFICE	
COMPRESSOR STATION	
COMPRESSOR STATION WITH CHILLING	
COMPRESSOR STATION WITH AERIAL COOLERS	
COMPRESSOR STATION WITH GAS HEATER	

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
SASKATCHEWAN SECTION



## LEGENDS

## LAND USE and SPECIAL AREAS

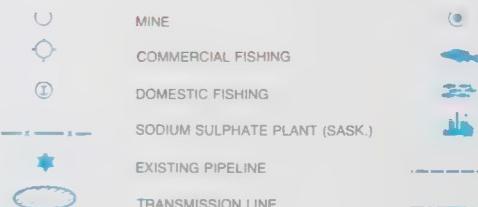
## SERIES ONE

- DEVELOPMENT CONTROL ZONE
- PRIVATE LOTS
- HIGHWAY COMMERCIAL SERVICES
- AGRICULTURAL RESERVES



## SERIES TWO

- LIMITED OR NO FACILITIES
- ALL FACILITIES
- WATER LANDING
- CNT POLE LINE
- PROPOSED HYDRO FACILITY
- MINING CLAIM



## RECREATION SERIES

- CAMPGROUNDS
- POTENTIAL RECREATION
- IBP RESERVES (PROPOSED)
- KLUANE GAME SANCTUARY



## TRAPPING SERIES

- PRIME TRAPPING AREA (PTA)
- RESERVE FOR DISABLED AND AGED

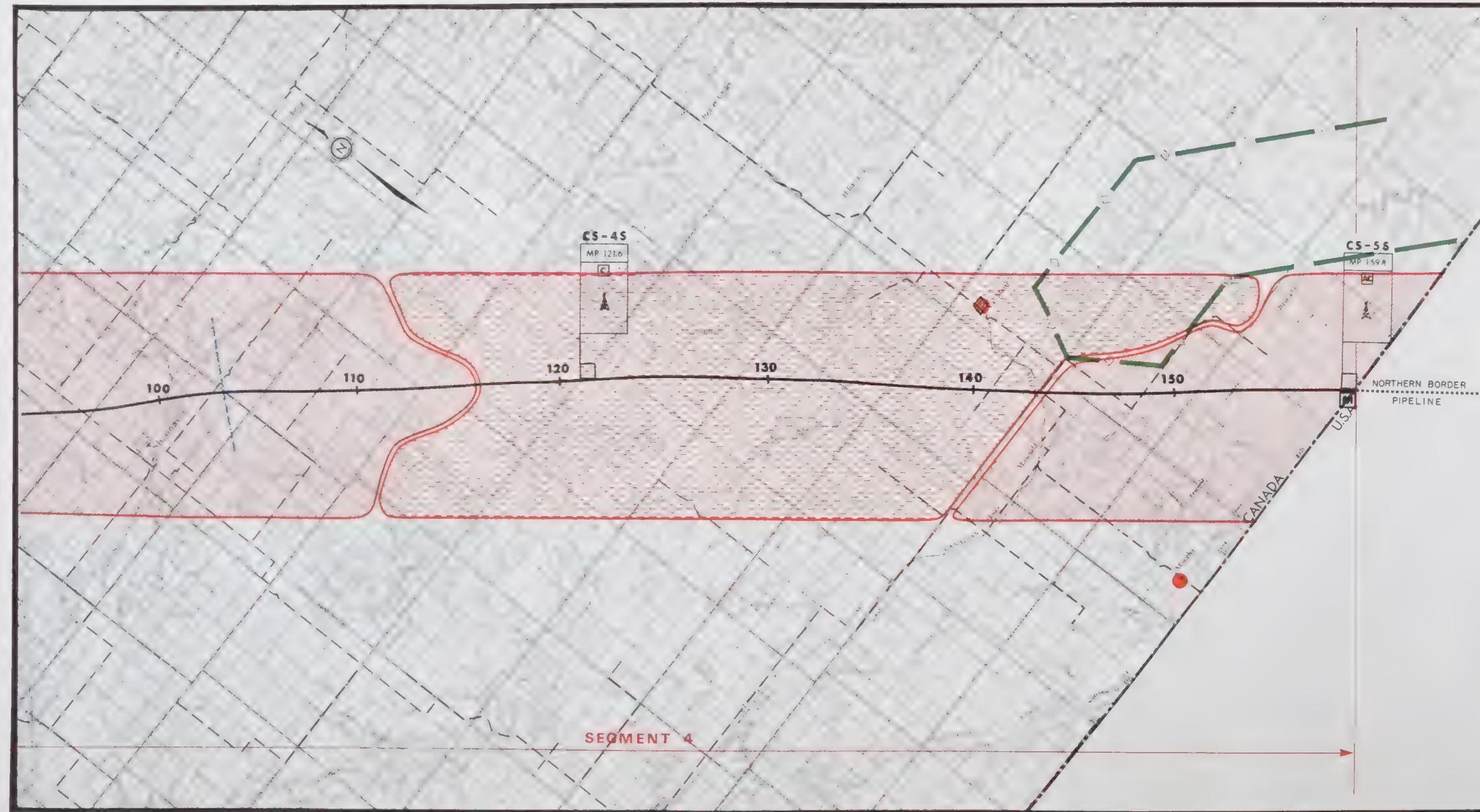


## PIPELINE LEGEND

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE



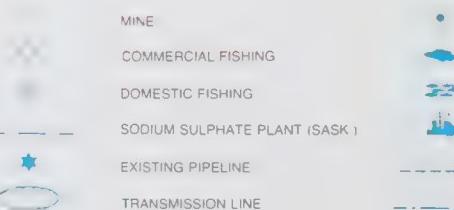
FOOTHILLS PIPE LINES (YUKON) LTD.  
SASKATCHEWAN SECTION

**LEGENDS****LAND USE and SPECIAL AREAS****SERIES ONE**

- DEVELOPMENT CONTROL ZONE
- PRIVATE LOTS
- HIGHWAY COMMERCIAL SERVICES
- AGRICULTURAL RESERVES

**SERIES TWO**

- LIMITED OR NO FACILITIES
- ALL FACILITIES
- WATER LANDING
- CNT POLE LINE
- PROPOSED HYDRO FACILITY
- MINING CLAIM

**RECREATION SERIES**

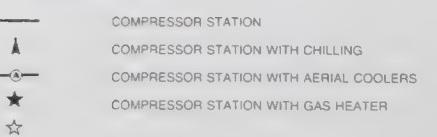
- CAMPGROUNDS
- POTENTIAL RECREATION
- IBP RESERVES (PROPOSED)
- KLUANE GAME SANCTUARY

**TRAPPING SERIES**

- PRIME TRAPPING AREA (PTA)
- RESERVE FOR DISABLED AND AGED

**Pipeline Legend**

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE



**FOOTHILLS PIPE LINES (YUKON) LTD.**  
SASKATCHEWAN SECTION



## AESTHETICS

### BACKGROUND

The accompanying maps illustrate an evaluation of visual resources along the proposed pipeline in the Yukon and Saskatchewan.

**VISUAL FEATURES:** Site specific landscape elements of visual interest that are geological, hydrological, biological or cultural in origin. Features of large scale that serve as landmarks are designated as "regional features". High quality, smaller scale points of interest are shown as "local features". "Biological Zones of Interest" are areas of game sanctuaries or International Biological Program (IBP) sites that would have wildlife and vegetational interest and diversity.

**VISUAL ZONES:** The corridor along the proposed pipeline alignment was divided into zones with common visual characteristics such as vegetation, landform, water form and the presence of landmark features. The Visual Inventory in the Environmental Statement provides a summary description of each zone.

### INFORMATION SOURCES

Department of Environment. 1973. Land Use Information Series. Prepared for the Department of Indian and Northern Affairs.

Department of Northern Affairs and National Resources, Northern Administration and Lands Branch, Lands Division. 1957 to 1976. Land Use Information.

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Slaney, F. F. and Company. 1976. Application of the Alcan Pipeline Company before the U.S. Federal Power Commission. Exhibit Z-1, Volume 2 and Volume 4.

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## ARCHAEOLOGY

### BACKGROUND

The following maps depict archaeological and historical sites within the pipeline corridor. Prehistoric site locations in the Yukon Section were obtained from consultation of the Archaeological Survey of Canada site files and maps. Saskatchewan site locations were also obtained from this source and from consultation of the Saskatchewan Museum of Natural History site files. Some sites, in the Saskatchewan Section, were also recorded during aerial reconnaissance.

Historic Yukon native settlements and other areas of Native use were obtained principally from Johnson and Raup (1964) and McClellan (1975). Settlement site locations are well documented while trade or fishing site locations are more general.

Mining communities and camps, road houses, and trail locations from the Gold Rush Era were obtained from a variety of sources, including the documents and maps held by the Yukon Archives, Public Archives of Canada, reports of staff of the Geological Survey of Canada (McConnell 1905) and various regional studies (Synergy West 1974). Locations, in general, except for some trail systems and road houses, are relatively accurate.

Alaska Highway and North West Staging Route camp locations were obtained from the "Interim Report of the U.S. House of Representatives Committee on Roads"; CANOL camp and station locations from Finnie (1945) and also CANOL blueprints in the Public Archives of Canada, and relevant National Topographic Series maps (1:50,000). The locations of all stations are neither perfectly accurate nor complete.

Log cabin locations are based on observations made during aerial reconnaissance. They are not in all instances precise.

Saskatchewan historic site locations are from Turner (1950) and Tiessen (1974). They are not precise.

### INFORMATION SOURCES

#### Governmental:

National Museum of Man, Archaeological Survey of Canada, site files and maps.

Saskatchewan Museum of Natural History, site files and maps.

Public Archives of Canada — Map collection

Yukon Archives — Map collection

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##### FINNIE, R.

1945 CANOL: The subarctic Pipeline and Refinery Project constructed by Bechtel-Price Callahan for the Corps of Engineers United States Army 1942-44. San Francisco.

##### JOHNSON, F. and H. M. RAUP

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##### MCLELLAN, C.

1975 My Old People Say, An Ethnographic Survey of Southern Yukon. National Museum of Canada, Bulletin 118, Ottawa.

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##### SYNERGY WEST LTD.

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### TIESSEN, H

1974 Old Style Prairie Ranching Gives Way to Intensive Crop-and-Cattle Farming. Canadian Geographic Journal 88: 4-11. Ottawa

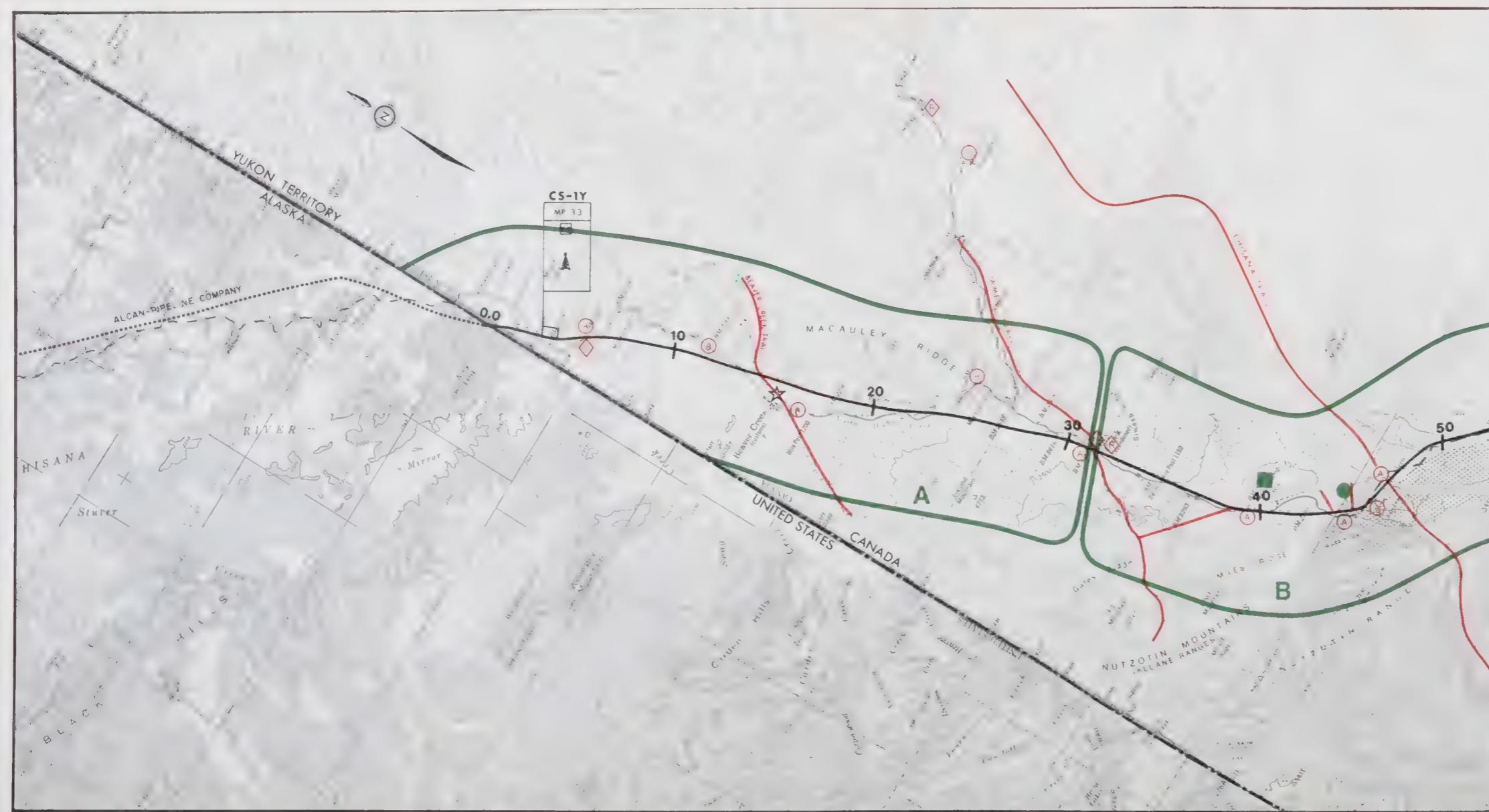
### TURNER J. P

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### UNITED STATES GOVERNMENT

1944 The Alaska Highway. Interim Report. Committee on Roads. House of Representatives Report No. 1705. Washington





## LEGENDS

## AESTHETICS and ARCHAEOLOGICAL

AESTHETICS

**REGIONAL FEATURE  
LOCAL FEATURE**

ARCHAEOLOGICAL

NATIVE  
VILLAGES  
GRAVES  
STRUCTURE  
FISHING STATION  
TRADE CENTER

RECENT HISTORIC

AIR BASES N.W. STAGING ROUTE (S)  
ALCAN (A)  
CANAL (C)  
RAILROAD (R)

TRAILS

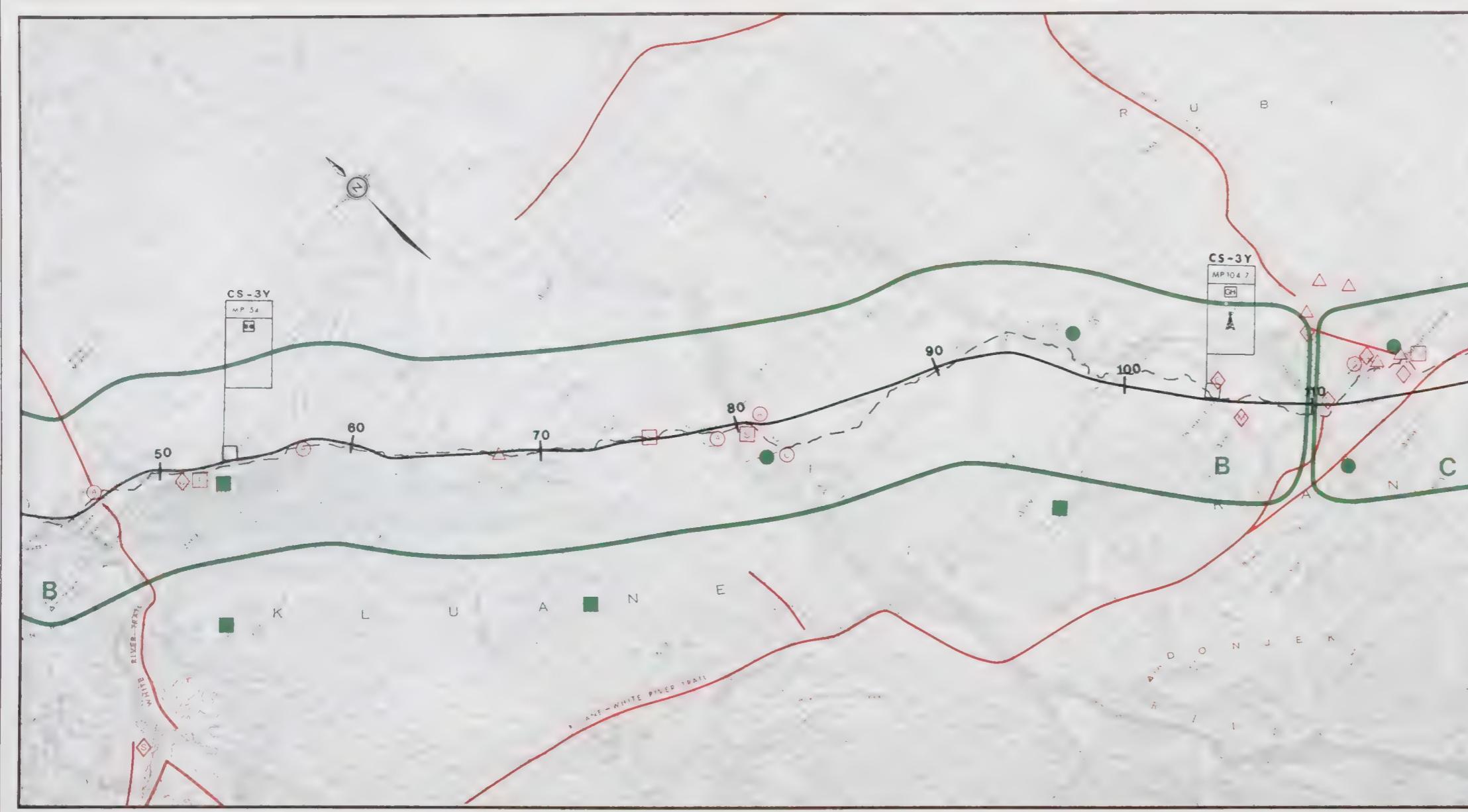
#### PIPELINE LEGEND

PROPOSED PIPELINE ROUTE  
TELECOMMUNICATIONS BASE STATION  
ACCESS ROAD  
HEAD OFFICE  
AREA OFFICE

- COMpressor STATION
- COMpressor STATION WITH CHILLING
- COMpressor STATION WITH AERIAL COOLERS
- COMpressor STATION WITH GAS HEATER

# FOOTHILLS PIPE LINES (YUKON) LTD.

## YUKON SECTION

**LEGENDS****AESTHETICS and ARCHAEOLOGICAL****AESTHETICS**

REGIONAL FEATURE  
LOCAL FEATURE

■ VISUAL ZONE  
● BIOLOGICAL ZONE OF INTEREST

**ARCHAEOLOGICAL****NATIVE**

■ PREHISTORIC SITE

**VILLAGES**

■ VILLAGES

**GRAVES**

■ GRAVES

**STRUCTURE**

■ STRUCTURE

**FISHING STATION**

■ FISHING STATION

**TRADE CENTER**

■ TRADE CENTER

**RECENT HISTORIC**

■ AIR BASES N.W. STAGING ROUTE

■ ALCAN

■ CANAL

■ RAILROAD

■ TRAILS

△ RECENT HISTORIC

□ ALCAN

□ CANAL

□ RAILROAD

— TRAILS

**Pipeline Legend****Proposed Pipeline Route**

— PROPOSED PIPELINE ROUTE

**Telecommunications Base Station**

▲ TELECOMMUNICATIONS BASE STATION

**Access Road**

— ACCESS ROAD

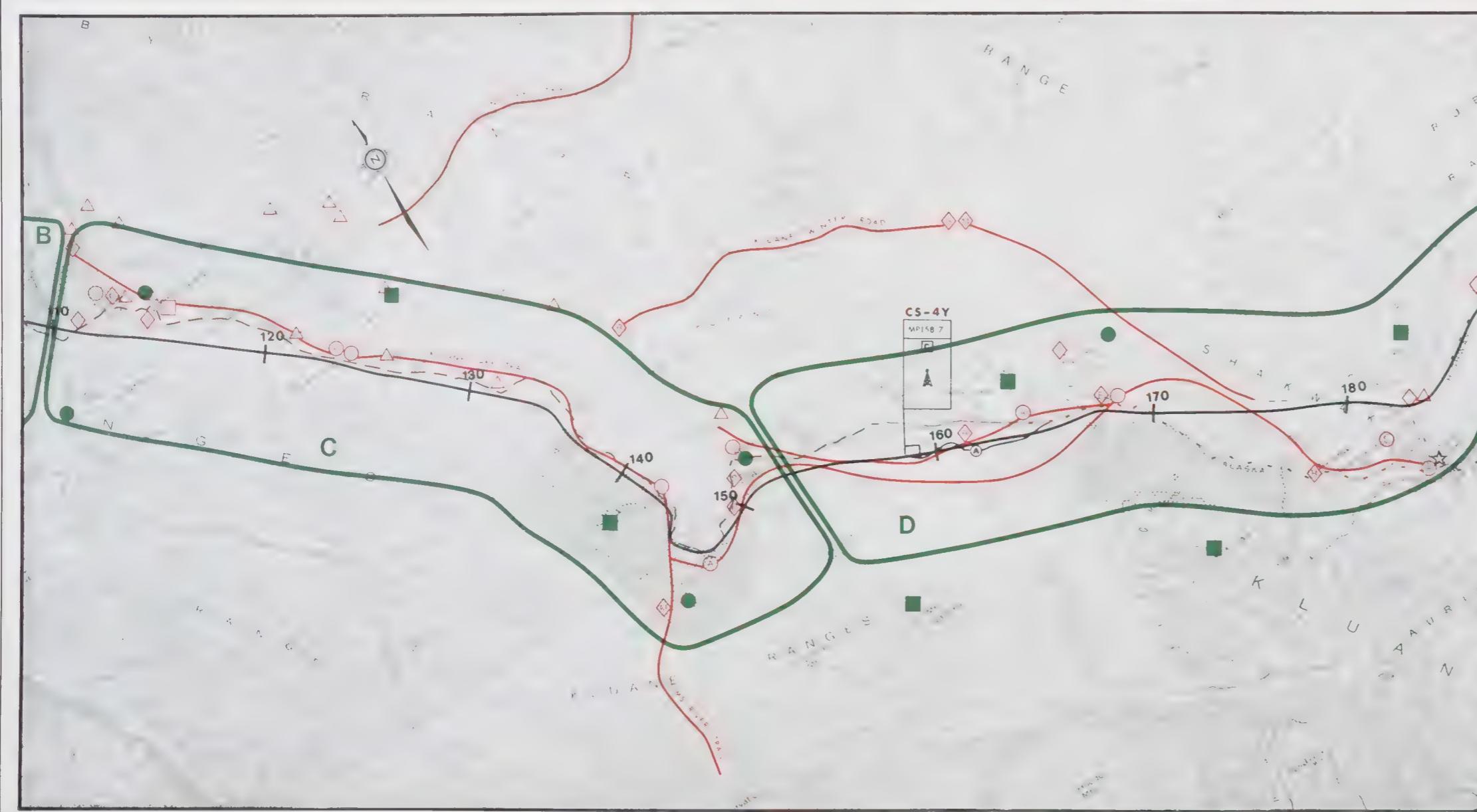
**Head Office**

★ HEAD OFFICE

**Area Office**

◆ AREA OFFICE

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****AESTHETICS and ARCHAEOLOGICAL****AESTHETICS**

REGIONAL FEATURE  
LOCAL FEATURE

VISUAL ZONE  
BIOLOGICAL ZONE OF INTEREST

**ARCHAEOLOGICAL****NATIVE**

PREHISTORIC SITE

VILLAGES

EARLY HISTORIC

GRAVES

CABINS

STRUCTURE

SETTLEMENT

FISHING STATION

MINING CAMP

TRADE CENTER

ROAD HOUSE

**RECENT HISTORIC**

AIR BASES N.W. STAGING ROUTE

ALCAN

CANAL

RAILROAD

TRAILS

S

A

C

R

—

**Pipeline Legend**

PROPOSED PIPELINE ROUTE

COMPRESSOR STATION

TELECOMMUNICATIONS BASE STATION

COMPRESSOR STATION WITH CHILLING

ACCESS ROAD

COMPRESSOR STATION WITH AERIAL COOLERS

HEAD OFFICE

COMPRESSOR STATION WITH GAS HEATER

AREA OFFICE

★



## LEGENDS

## AESTHETICS and ARCHAEOLOGICAL

## AESTHETICS

REGIONAL FEATURE  
LOCAL FEATURE

■ VISUAL ZONE  
● BIOLOGICAL ZONE OF INTEREST

## ARCHAEOLOGICAL

NATIVE  
VILLAGES  
GRAVES  
STRUCTURE  
FISHING STATION  
TRADE CENTER

■ PREHISTORIC SITE  
▼ EARLY HISTORIC  
□ CABINS  
△ SETTLEMENT  
◆ MINING CAMP  
□ ROAD HOUSE

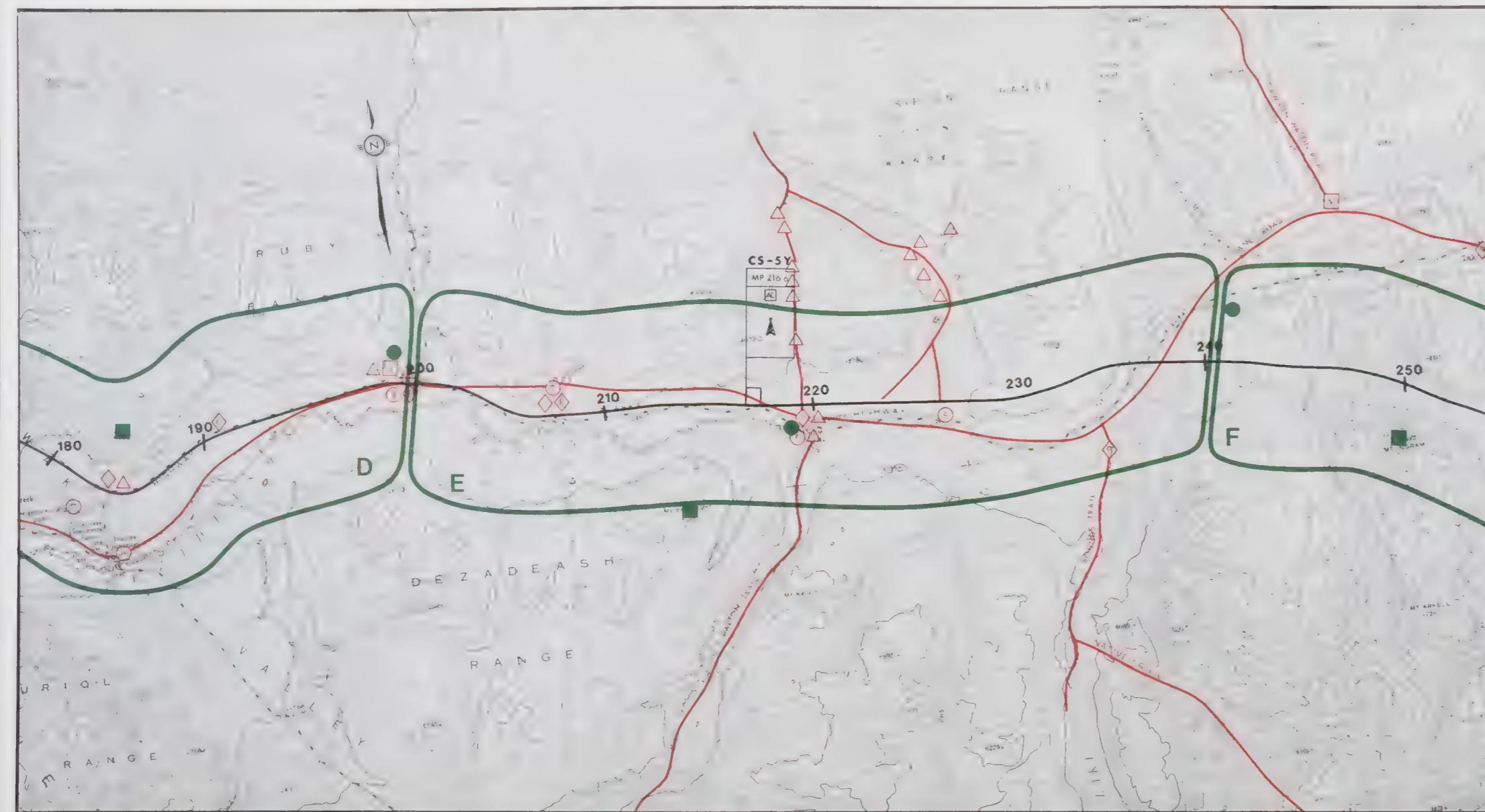
## RECENT HISTORIC

○ AIR BASES N.W. STAGING ROUTE  
△ ALCAN  
□ CANAL  
□ RAILROAD  
— TRAILS

## PIPELINE LEGEND

PROPOSED PIPELINE ROUTE  
TELECOMMUNICATIONS BASE STATION  
ACCESS ROAD  
HEAD OFFICE  
AREA OFFICE

— COMPRESSOR STATION  
□ COMPRESSOR STATION WITH CHILLING  
— COMPRESSOR STATION WITH AERIAL COOLERS  
★ COMPRESSOR STATION WITH GAS HEATER



**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

## LEGENDS

## AESTHETICS and ARCHAEOLOGICAL

## AESTHETICS

REGIONAL FEATURE  
LOCAL FEATURE

■ VISUAL ZONE  
● BIOLOGICAL ZONE OF INTEREST

## ARCHAEOLOGICAL

NATIVE  
VILLAGES  
GRAVES  
STRUCTURE  
FISHING STATION  
TRADE CENTER

■ PREHISTORIC SITE  
□ V EARLY HISTORIC  
□ G CABINS  
□ S SETTLEMENT  
□ F MINING CAMP  
□ T ROAD HOUSE

## RECENT HISTORIC

AIR BASES N.W. STAGING ROUTE  
ALCAN  
CANAL  
RAILROAD  
TRAILS

○  
△  
◎  
□  
○  
△  
◎  
□  
—

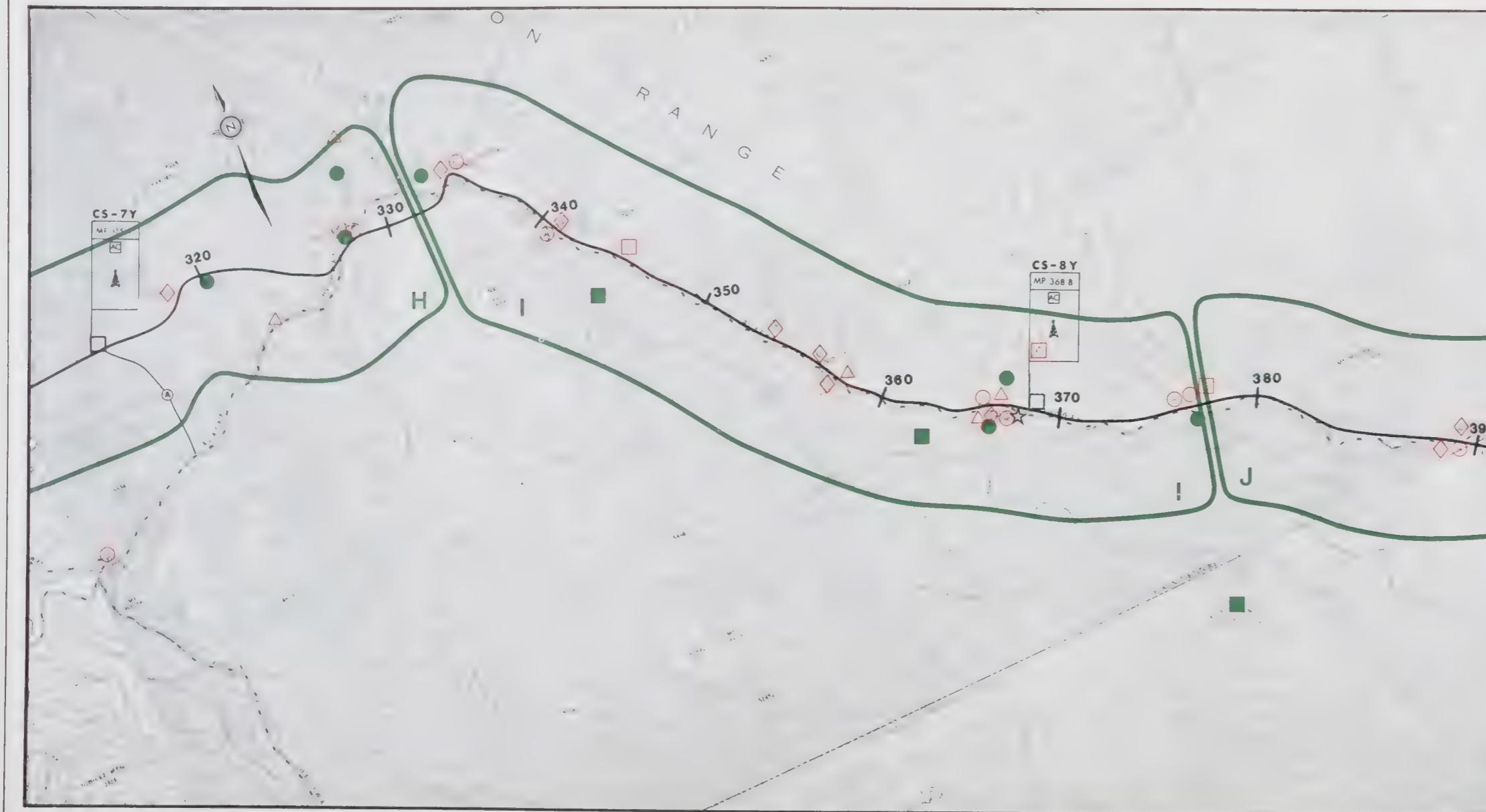
## PIPELINE LEGEND

PROPOSED PIPELINE ROUTE  
TELECOMMUNICATIONS BASE STATION  
ACCESS ROAD  
HEAD OFFICE  
AREA OFFICE

— COMPRESSOR STATION  
— COMPRESSOR STATION WITH CHILLING  
— COMPRESSOR STATION WITH AERIAL COOLERS  
— COMPRESSOR STATION WITH GAS HEATER



FOOTHILLS PIPE LINES (YUKON) LTD.  
YUKON SECTION



## LEGENDS

## AESTHETICS and ARCHAEOLOGICAL

AESTHETIC

**REGIONAL FEATURE  
LOCAL FEATURE**

ARCHAEOLOGICAL

NATIVE  
VILLAGES  
GRAVES  
STRUCTURE  
FISHING STATION  
TRADE CENTER

RECENT HISTORIC

AIR BASES N.W. STAGING ROUTE  
ALCAN (A)  
CANAL (C)  
RAILROAD (R)  
TRAILS

**PIPELINE LEGEND**

PROPOSED PIPELINE ROUTE  
TELECOMMUNICATIONS BASE STATION  
ACCESS ROAD  
HEAD OFFICE  
AREA OFFICE

- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- COMPRESSOR STATION WITH GAS HEATER

# FOOTHILLS PIPE LINES (YUKON) LTD.

## YUKON SECTION

## LEGENDS

## AESTHETICS and ARCHAEOLOGICAL

## AESTHETICS

REGIONAL FEATURE  
LOCAL FEATURE

VISUAL ZONE  
BIOLOGICAL ZONE OF INTEREST

## ARCHAEOLOGICAL

NATIVE  
VILLAGES  
GRAVES  
STRUCTURE  
FISHING STATION  
TRADE CENTER

PREHISTORIC SITE  
EARLY HISTORIC  
CABINS  
SETTLEMENT  
MINING CAMP  
ROAD HOUSE

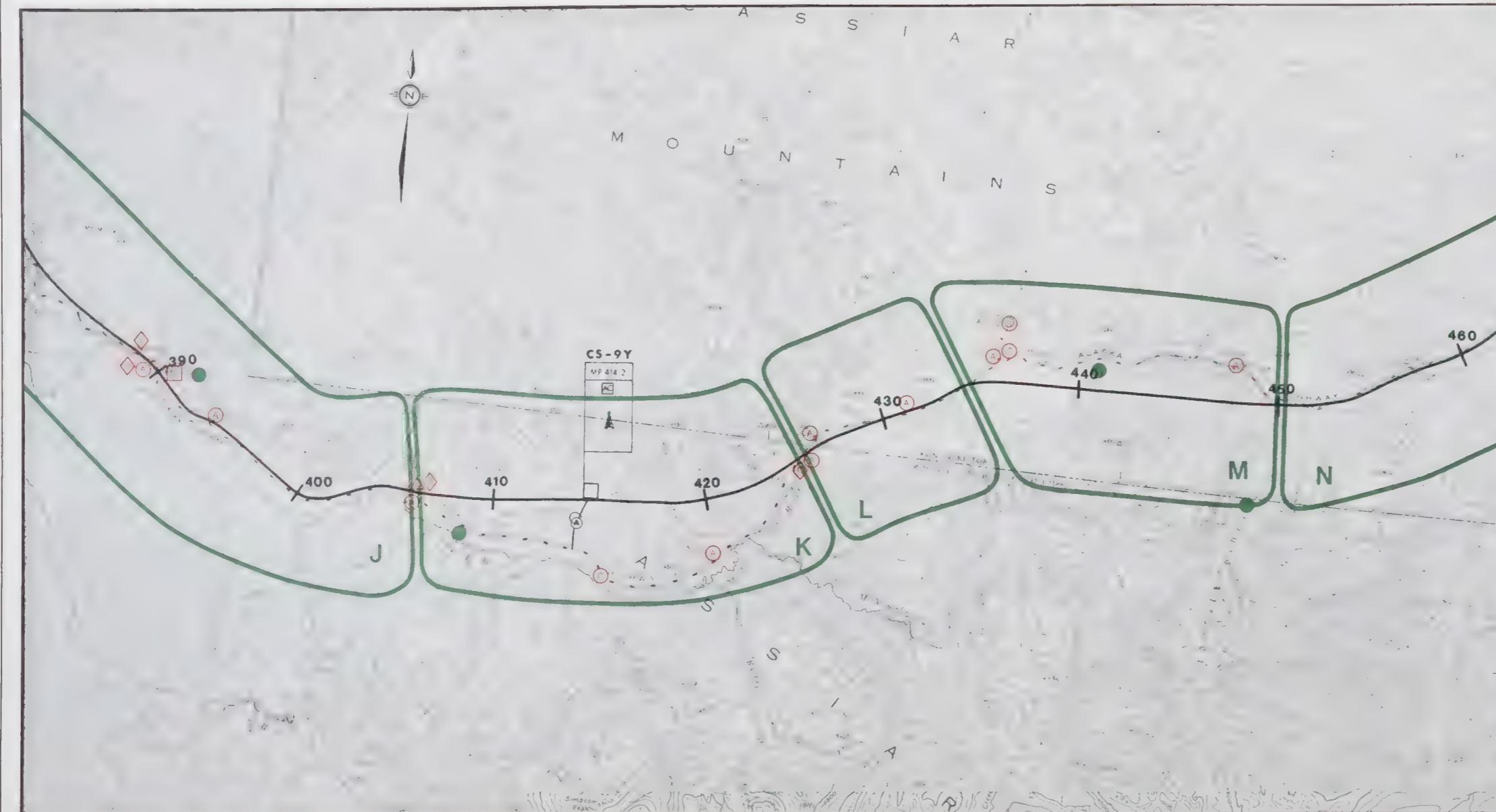
## RECENT HISTORIC

AIR BASES N.W. STAGING ROUTE  
ALCAN  
CANAL  
RAILROAD  
TRAILS

## PIPELINE LEGEND

PROPOSED PIPELINE ROUTE  
TELECOMMUNICATIONS BASE STATION  
ACCESS ROAD  
HEAD OFFICE  
AREA OFFICE

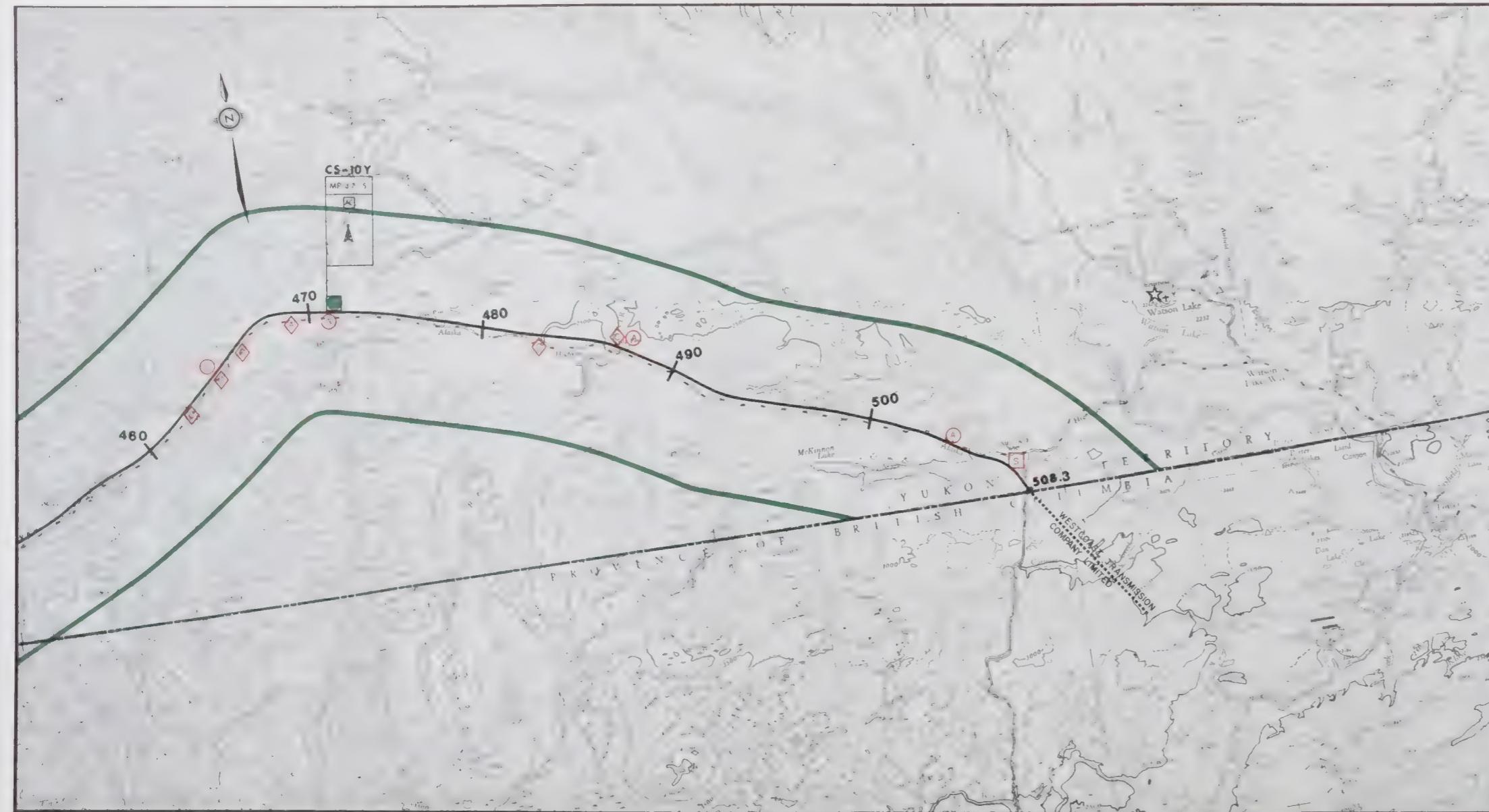
COMPRESSOR STATION  
COMPRESSOR STATION WITH CHILLING  
COMPRESSOR STATION WITH AERIAL COOLERS  
COMPRESSOR STATION WITH GAS HEATER



FOOTHILLS PIPE LINES (YUKON) LTD.  
YUKON SECTION

## LEGENDS

## AESTHETICS and ARCHAEOLOGICAL



## AESTHETICS

REGIONAL FEATURE  
LOCAL FEATURE

VISUAL ZONE  
BIOLOGICAL ZONE OF INTEREST

## ARCHAEOLOGICAL

NATIVE  
VILLAGES  
GRAVES  
STRUCTURE  
FISHING STATION  
TRADE CENTER

PREHISTORIC SITE  
EARLY HISTORIC  
CABINS  
SETTLEMENT  
MINING CAMP  
ROAD HOUSE

## RECENT HISTORIC

AIR BASES N.W. STAGING ROUTE  
ALCAN  
CANAL  
RAILROAD  
TRAILS

CANADIAN ARCTIC  
GAS STUDY LTD  
DEC-1 1976  
LIBRARY

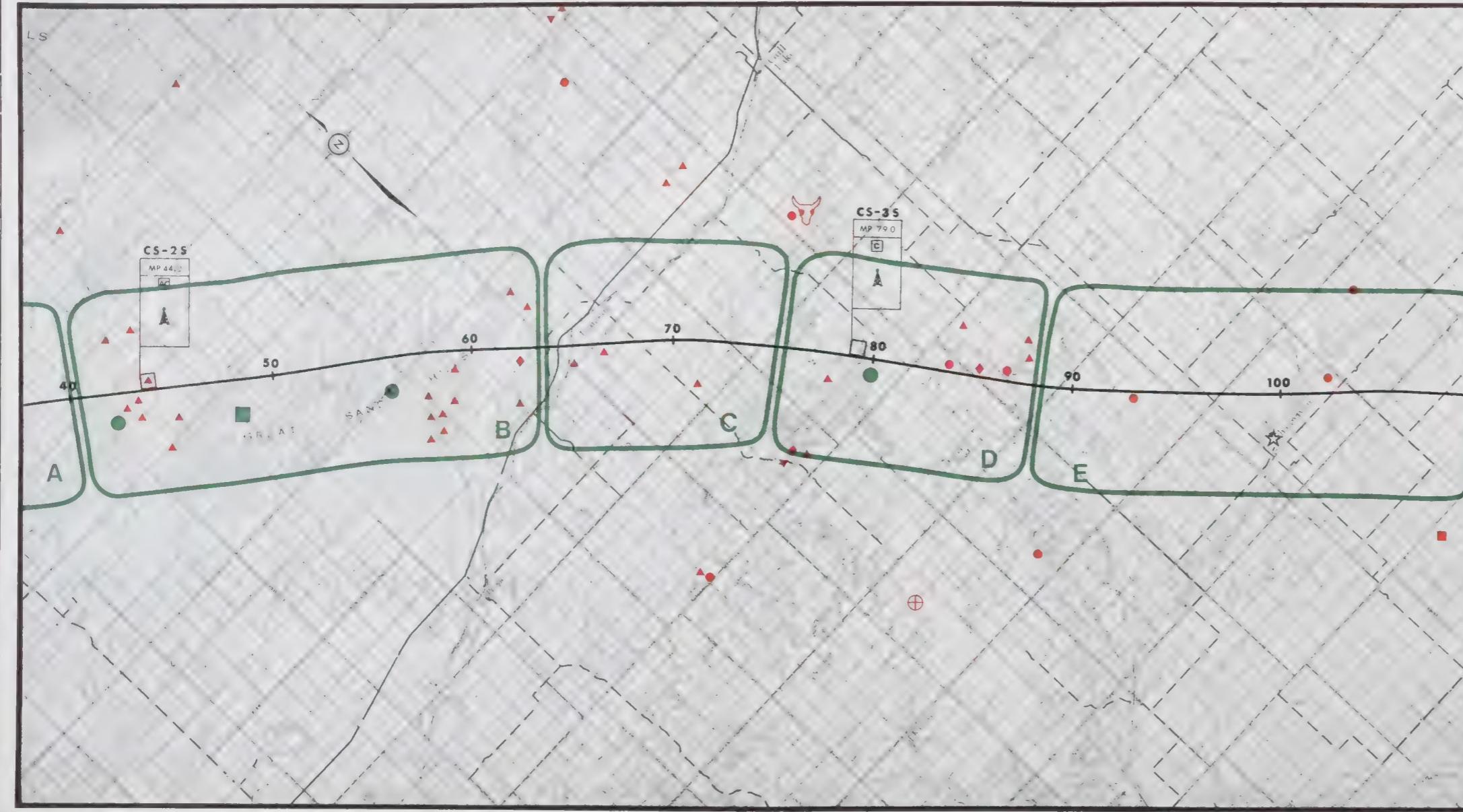
## PIPELINE LEGEND

PROPOSED PIPELINE ROUTE  
TELECOMMUNICATIONS BASE STATION  
ACCESS ROAD  
HEAD OFFICE  
AREA OFFICE

COMPRESSOR STATION  
COMPRESSOR STATION WITH CHILLING  
COMPRESSOR STATION WITH AERIAL COOLERS  
COMPRESSOR STATION WITH GAS HEATER

FOOTHILLS PIPE LINES (YUKON) LTD.  
YUKON SECTION



**LEGENDS****AESTHETICS and ARCHAEOLOGICAL****AESTHETICS**

REGIONAL FEATURE

LOCAL FEATURE

**ARCHAEOLOGICAL AND HISTORIC SITES**

SURFACE CAMPS

BURIED CAMPS

BISON KILLS

TIPI RINGS

CAIRNS

EFFIGY

VISUAL ZONE

BIOMASS ZONE OF INTEREST

MEDICINE WHEEL/RING/CAIRNS COMPLEX

BURIAL

RIFLE PITS

NWMP POST

RANCH

HOMESTEAD

**Pipeline Legend**

PROPOSED PIPELINE ROUTE

TELECOMMUNICATIONS BASE STATION

ACCESS ROAD

HEAD OFFICE

AREA OFFICE

COMPRESSOR STATION

COMPRESSOR STATION WITH CHILLING

COMPRESSOR STATION WITH AERIAL COOLERS

COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
SASKATCHEWAN SECTION

**LEGENDS****AESTHETICS and ARCHAEOLOGICAL****AESTHETICS**

REGIONAL FEATURE

LOCAL FEATURE

**ARCHAEOLOGICAL AND HISTORIC SITES**

SURFACE CAMPS

BURIED CAMPS

BISON KILLS

TIPI RINGS

CAIRNS

EFFIGY

VISUAL ZONE

BIOMASS ZONE OF INTEREST

MEDICINE WHEEL/RING/CAIRNS COMPLEX

BURIAL

RIFLE PITS

NWMP POST

RANCH

HOMESTEAD

**Pipeline Legend**

PROPOSED PIPELINE ROUTE

COMPRESSOR STATION

TELECOMMUNICATIONS BASE STATION

COMPRESSOR STATION WITH CHILLING

ACCESS ROAD

COMPRESSOR STATION WITH AERIAL COOLERS

HEAD OFFICE

COMPRESSOR STATION WITH GAS HEATER

AREA OFFICE

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
**SASKATCHEWAN SECTION**



## FISH

### BACKGROUND

Data on the streams and rivers crossed and/or paralleled by the proposed pipeline for which information is currently available have been summarized in the following maps. The major function(s) of individual watercourses in relation to fish resources and utilization have been assigned one or a combination of the following designations: migration route, spawning area, nursery area, overwintering area, domestic fishing, commercial fishing and sport fishing. Identification of these areas is based on existing data and represents suspected or known areas only.

### INFORMATION SOURCES

The data base from which the following maps were compiled relies heavily on unpublished information in government files. Other sources of information are included below:

Brook, D.N. 1976. Distribution and abundance of chinook (*Oncorhynchus tshawytscha*) and chum (*Oncorhynchus keta*) salmon in the upper Yukon River system in 1974, as determined by a tagging program. PAC/T - 76-3, 56 pp.

Canada, Dept. of the Environment, Northern British Columbia and Yukon Division, Northern Operations Branch, Pacific Region PAC/T - 73-13. 1973. Fisheries and Marine Service. Catalogue of fish and stream resources of the Teslin watershed.

Clemens, W.A., et al. 1945. A preliminary report on a fisheries survey of Teslin Lake, British Columbia. Report of the B.C. Fisheries Dept. for 1944, Victoria, pp. 70-75.

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Sweitzer, O. 1974. Distribution and abundance of chinook (*Oncorhynchus tshawytscha*) and chum (*Oncorhynchus keta*) salmon in the upper Yukon system in 1973 as determined by a tagging program. PAC/T - 74-20, 24 pp.

Walker, C.E. and F.R. Brown. 1974. Stream studies in the Aishihik system with reference to hydroelectric developments. PAC/T - 74-9, 46 pp. and appendices.

## BIRDS

### BACKGROUND

In the following series of maps, birds are considered in three groups: waterfowl, raptors and upland game birds. These three groups are regarded as comprising the most economically and aesthetically important avifauna in the regions in question. The raptors are all classified as rare and/or endangered species, and, among waterfowl, the trumpeter swan (*Olor buccinator*) is also given this designation.

Information presented in the map series includes the location and nature of use (both actual and potential) of waterfowl habitats (migration/staging, breeding). General locations of actual and potential nesting habitat of raptors are also given. Considered here are:

- 1) Yukon cliff-nesting raptors — the Peregrine Falcon (*Falco peregrinus*), Gyrfalcon (*F. rusticolus*), and Golden Eagle (*Aquila chrysaetos*);
- 2) Yukon tree-nesting raptors — Bald Eagle (*Haliaeetus leucocephalus*) and Osprey (*Pandion haliaetus*); and
- 3) Saskatchewan cliff-nesting raptors — Prairie Falcon (*Falco mexicanus*) and Richardson's Merlin (*F. columbarius richardsonii*).

Upland game birds considered in the Yukon maps are primarily Spruce Grouse (*Canachites canadensis*), Ruffed Grouse (*Bonasa umbellus*), and Sharp-tailed Grouse (*Pediocetes phasianellus*); in the Saskatchewan maps, they are Sharp-tailed Grouse, Sage Grouse (*Centrocercus urophasianus*), Ring-necked Pheasant (*Phasianus colchicus*), and Grey Partridge (*Perdix perdix*).

Areas of importance to the three bird groups have been identified if the proposed pipeline route lies within five miles of presently used or potential habitats.

### INFORMATION SOURCES

Information was obtained from interviews with government and other personnel, literature review, and aerial reconnaissance of the regions in question. The following is a list of information sources:

Banfield, A.W.F. 1953. Notes on the birds of the Kluane Game Sanctuary, Yukon Territory. Can. Field-Nat. 67:177-179.

Beckel, D.K.B. (ed.). 1975. IBP Ecological Sites in Subarctic Canada. Can. Comm. Intern. Biol. Progr., Conservation of Terrestrial Biological Communities Subcommittee, Region 10 Panel. Univ. Lethbridge. 163 pp.

Dennington, M. 1976. Canadian Wildlife Service, Whitehorse, Y.T. Personal Communication.

Department of Tourism and Renewable Resources, Saskatchewan. 1976. Terrestrial Wildlife Habitat Inventory Maps (Unpublished, Scale 1: 250,000). Saskatoon.

Environment Canada. 1973. Land Use Information Map Series. Scale 1: 250,000. Depts. of the Environment and Indian Affairs and Northern Development, Ottawa.

Forbes, C. B. 1976. Ducks Unlimited (Canada), Regina. Personal Communication.

Godfrey, W.E. 1950. Birds of the Cypress Hills and Flotten Lake regions, Saskatchewan. Nat. Mus. Can. Bull. No. 120, Biol. Ser. No. 40 96 pp.

xxxxxxxxx. 1951. Notes on the birds of southern Yukon Territory. Nat. Mus. Can. Bull. 123: 88-115.

Hoefs, M. 1973. Birds of the Kluane Game Sanctuary, Yukon Territory, and adjacent areas. Can. Field-Nat. 87: 345-355.

Lortie, G. 1976. Government of the Yukon Territory, Game Branch. Personal Communication.

Pepper, W. 1976. Government of Saskatchewan, Dept. of Tourism and Renewable Resources, Fisheries and Wildlife Branch. Personal Communication.

Schultz, C. D. and Co. Ltd. 1976. Preliminary Environmental Impact Assessment of the proposed Alcan Pipeline. Vol. 1. (Beaver Creek to Zama Lake.) Report prepared for Gulf Interstate Engineering Co. 240 pp.

Slaney, F.F. and Co. Ltd. 1976. Application of Alcan Pipeline Co., exhibit Z-1, Vol. 2, Canada, Yukon to Zama. Report prepared for Gulf Interstate Engineering Co. 493 pp.

Soper, J.D. 1954. Waterfowl and other ornithological investigations in Yukon Territory, Canada, 1950. Can. Wildl. Serv., Wildl. Mgmt. Bull. Ser. 2., No. 7. 55 pp.

Wright, E.M. 1976. formerly with Ducks Unlimited (Canada), Regina. Personal Communication.

**LEGENDS****FISH and BIRDS****FISH**

- MIGRATION ROUTE
- SPAWNING AREA
- NURSERY AREA
- OVERWINTERING AREA

**BIRDS**

- WATERFOWL MIGRATION/STAGING AREA
- WATERFOWL BREEDING AREA
- POSSIBLE RARE AND OR ENDANGERED SPECIES BREEDING AREA
- POTENTIAL
- UPLAND GAME BIRD RANGE

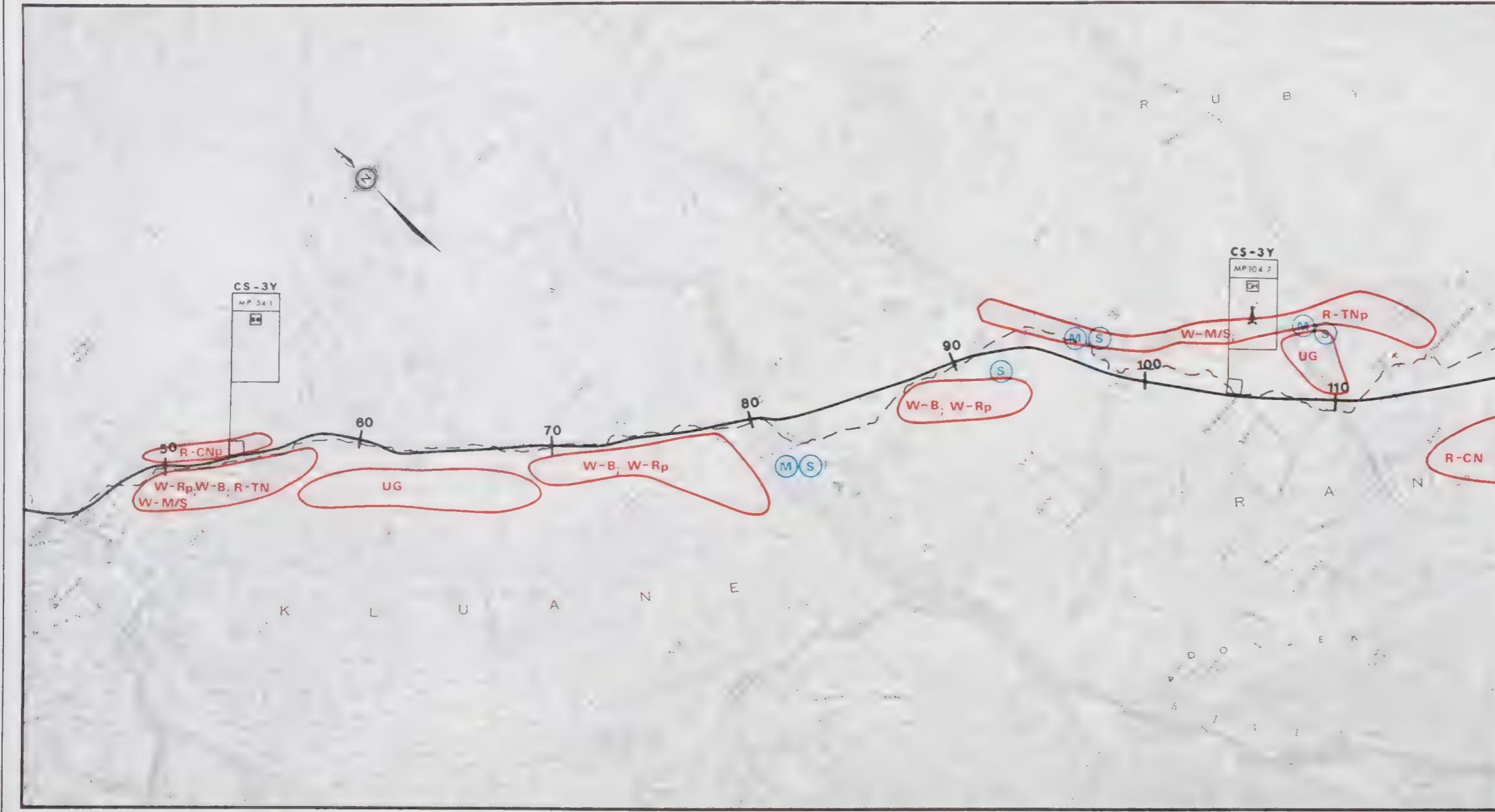
- (W) DOMESTIC FISHING
- (S) COMMERCIAL FISHING
- (C) SPORT FISHING

- (R) RAPTORS TREE-NESTING SPECIES BREEDING AREA
- (B) RAPTORS CLIFF-NESTING SPECIES BREEDING AREA
- (P) POTENTIAL
- (M) MIGRATION PATHWAY (SWANS & GEESE)

**Pipeline Legend**

- PROPOSED PIPELINE ROUTE
- COMPRESSOR STATION
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE

- (—) COMPRESSOR STATION WITH CHILLING
- (—) COMPRESSOR STATION WITH AERIAL COOLERS
- (—) COMPRESSOR STATION WITH GAS HEATER
- (★) COMPRESSOR STATION



## LEGENDS

# **FISH and BIRDS**

F

MIGRATION ROUTE

#### SPAWNING AREA

NURSERY AREA

#### OVERWINTERING AREA

四

WATERFOWL MIGRATION/STAGING AREA

WATERFOWL BREEDING AREA

**POSSIBLE RARE AND OR ENDANGERED  
SPECIES BREEDING AREA**

POTENT

UPLAND GAME BIRD RANGE

$$\frac{1}{n} \sum_{i=1}^n \left( \frac{1}{f_i} - \frac{1}{\hat{f}_i} \right)^2 \geq \lambda$$

MEMPHIS FISHING

卷之三

## RAPTORS TREE-NESTING SPECIES BREEDING AREA

## RAPTORS CLIFF-NESTING SPECIES BREEDING AREA

## POTENTIAL

## Migration Pathway (Swans & Geese)

**PIPELINE LEGEND**

#### PROPOSED PIPELINE ROUTE

PROGRESSIVE MOVE

ACCESS ROAD

HEAD OR TAIL

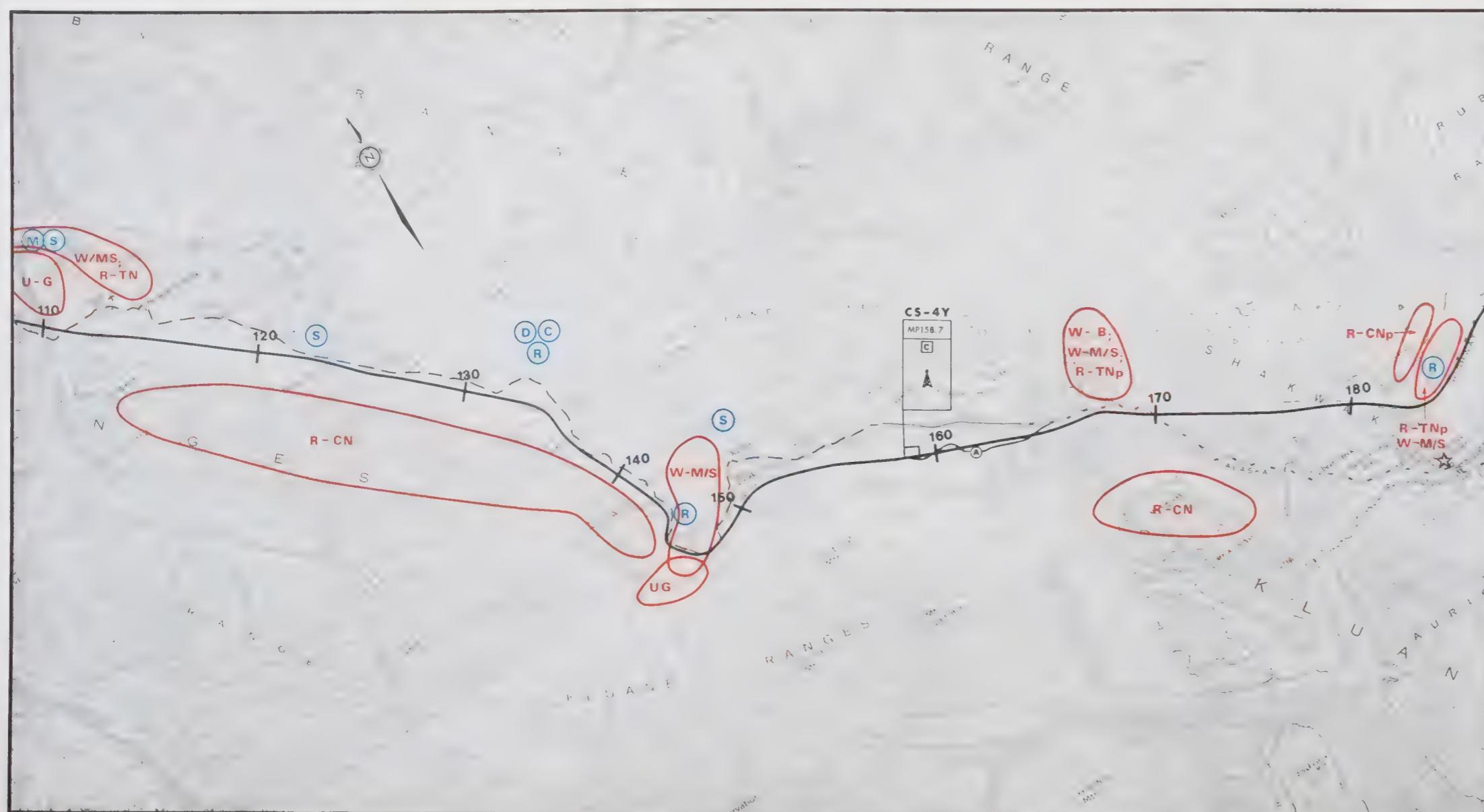
#### **COMPRESSOR STATION**

COMPRES

www.rit.edu

# FOOTHILLS PIPE LINES (YUKON) LTD.

## YUKON SECTION



## LEGENDS

## FISH and BIRDS

## FISH

- MIGRATION ROUTE
- SPAWNING AREA
- NURSERY AREA
- OVERWINTERING AREA



DOMESTIC FISHING  
COMMERCIAL FISHING  
SPORT FISHING



## BIRDS

- WATERFOWL MIGRATION/STAGING AREA
- WATERFOWL BREEDING AREA
- POSSIBLE RARE AND/OR ENDANGERED SPECIES BREEDING AREA
- POTENTIAL
- UPLAND GAME BIRD RANGE



RAPTORS TREE-NESTING SPECIES  
BREEDING AREA  
RAPTORS CLIFF-NESTING SPECIES  
BREEDING AREA



R-TN  
R-CN  
P  
W-M/S  
W-B  
W-R  
P  
UG

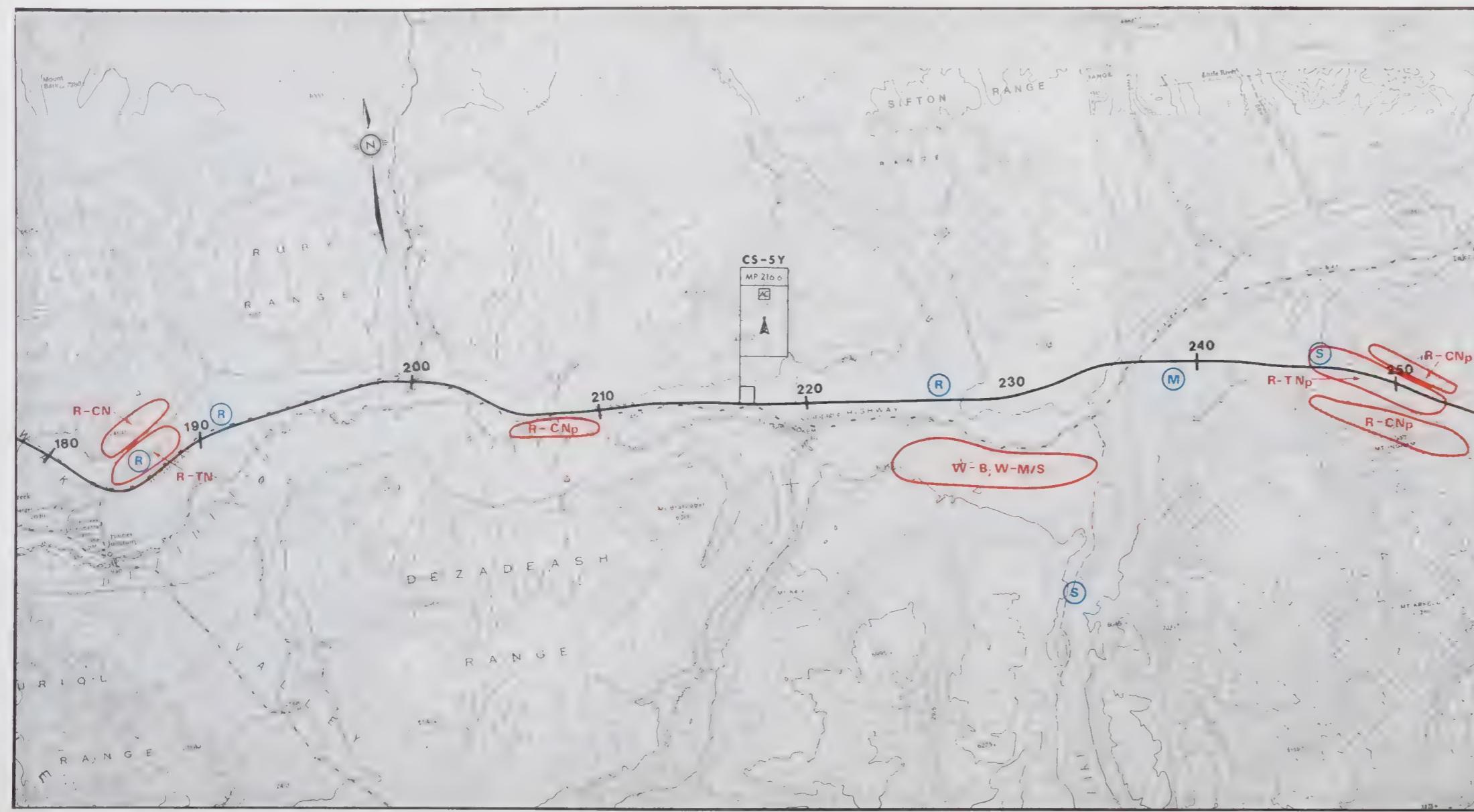


## PIPELINE LEGEND

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE



**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION



### LEGENDS

## FISH and BIRDS

### FISH

- MIGRATION ROUTE
- SPAWNING AREA
- NURSERY AREA
- OVERWINTERING AREA

- (M) DOMESTIC FISHING
- (S) COMMERCIAL FISHING
- (N) SPORT FISHING

### BIRDS

- WATERFOWL MIGRATION/STAGING AREA
- WATERFOWL BREEDING AREA
- POSSIBLE RARE AND OR ENDANGERED SPECIES BREEDING AREA
- POTENTIAL
- UPLAND GAME BIRD RANGE

- W-M-S RAPTORS TREE-NESTING SPECIES BREEDING AREA
- W-B RAPTORS CLIFF-NESTING SPECIES BREEDING AREA
- W-R POTENTIAL
- P MIGRATION PATHWAY (SWANS & GEESE)

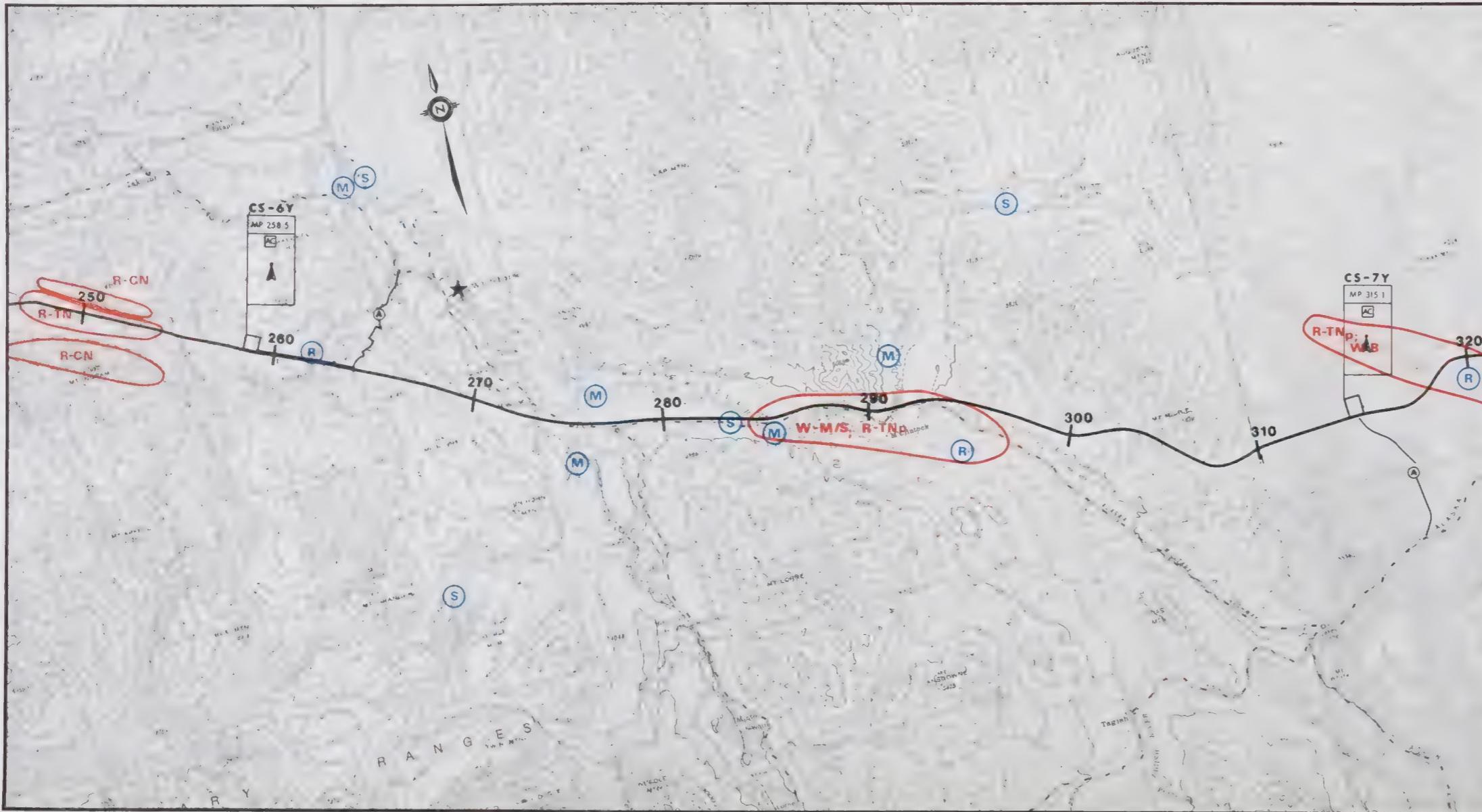


### PIPELINE LEGEND

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE

- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- ★ COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****FISH and BIRDS****FISH**

- MIGRATION ROUTE
- SPAWNING AREA
- NURSERY AREA
- OVERWINTERING AREA

- DOMESTIC FISHING
- COMMERCIAL FISHING
- SPORT FISHING

**BIRDS**

- WATERFOWL MIGRATION/STAGING AREA
- WATERFOWL BREEDING AREA
- POSSIBLE RARE AND/OR ENDANGERED SPECIES BREEDING AREA
- POTENTIAL
- UPLAND GAME BIRD RANGE

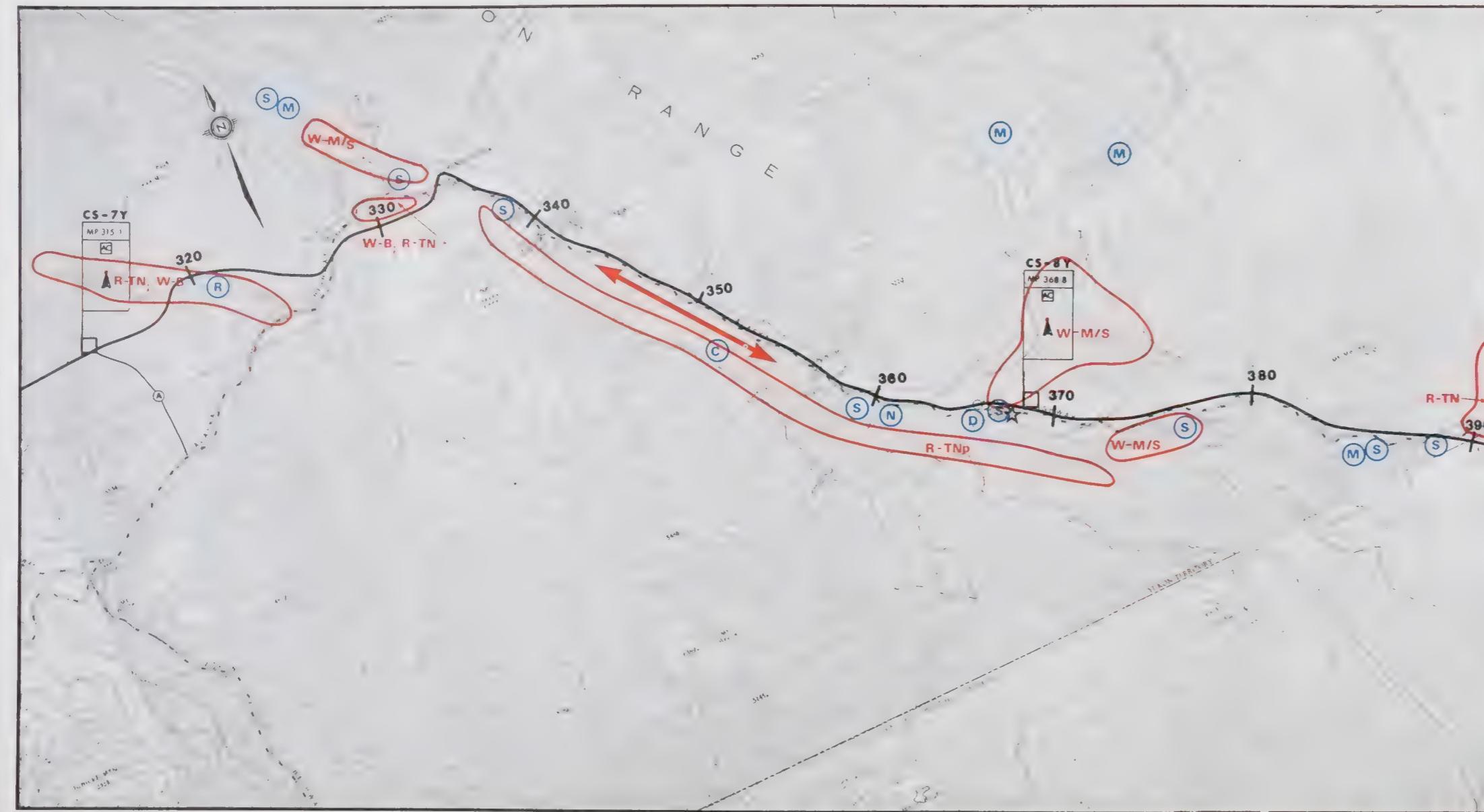
- RAPTORS TREE-NESTING SPECIES BREEDING AREA
- RAPTORS CLIFF-NESTING SPECIES BREEDING AREA
- POTENTIAL
- MIGRATION PATHWAY (SWANS & GEESE)

**PIPELINE LEGEND**

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE

- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****FISH and BIRDS****FISH**

- MIGRATION ROUTE
- SPAWNING AREA
- NURSERY AREA
- OVERWINTERING AREA

- DOMESTIC FISHING
- COMMERCIAL FISHING
- SPORT FISHING

**BIRDS**

- WATERFOWL MIGRATION STAGING AREA
- WATERFOWL BREEDING AREA
- POSSIBLE RARE AND OR ENDANGERED SPECIES BREEDING AREA
- POTENTIAL
- UPLAND GAME BIRD RANGE

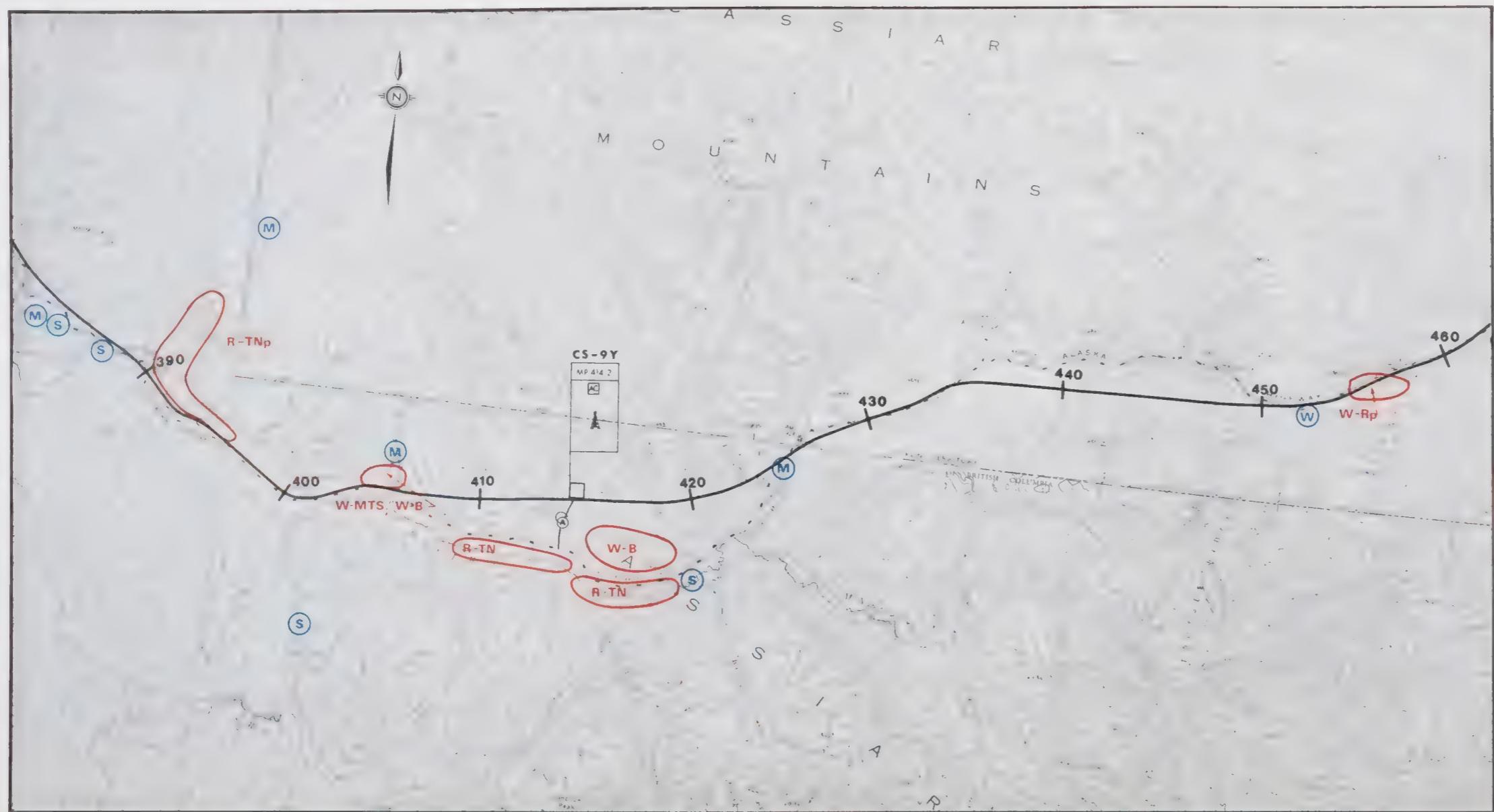
- RAPTORS TREE-NESTING SPECIES BREEDING AREA
- RAPTORS CLIFF NESTING SPECIES BREEDING AREA
- POTENTIAL
- MIGRATION PATHWAY SWANS & GEESE

**Pipeline Legend**

- Proposed Pipeline Route
- Telecommunications Base Station
- Access Road
- Head Office
- Area Office

- Compressor Station
- Compressor Station with Chilling
- Compressor Station with Aerial Coolers
- Compressor Station with Gas Heater

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION



## LEGENDS

## FISH and BIRDS

## FISH

- MIGRATION ROUTE
- SPAWNING AREA
- NURSERY AREA
- OVERWINTERING AREA

## BIRDS

- WATERFOWL MIGRATION-STAGING AREA
- WATERFOWL BREEDING AREA
- POSSIBLE RARE AND/OR ENDANGERED SPECIES BREEDING AREA
- POTENTIAL
- UPLAND GAME BIRD RANGE

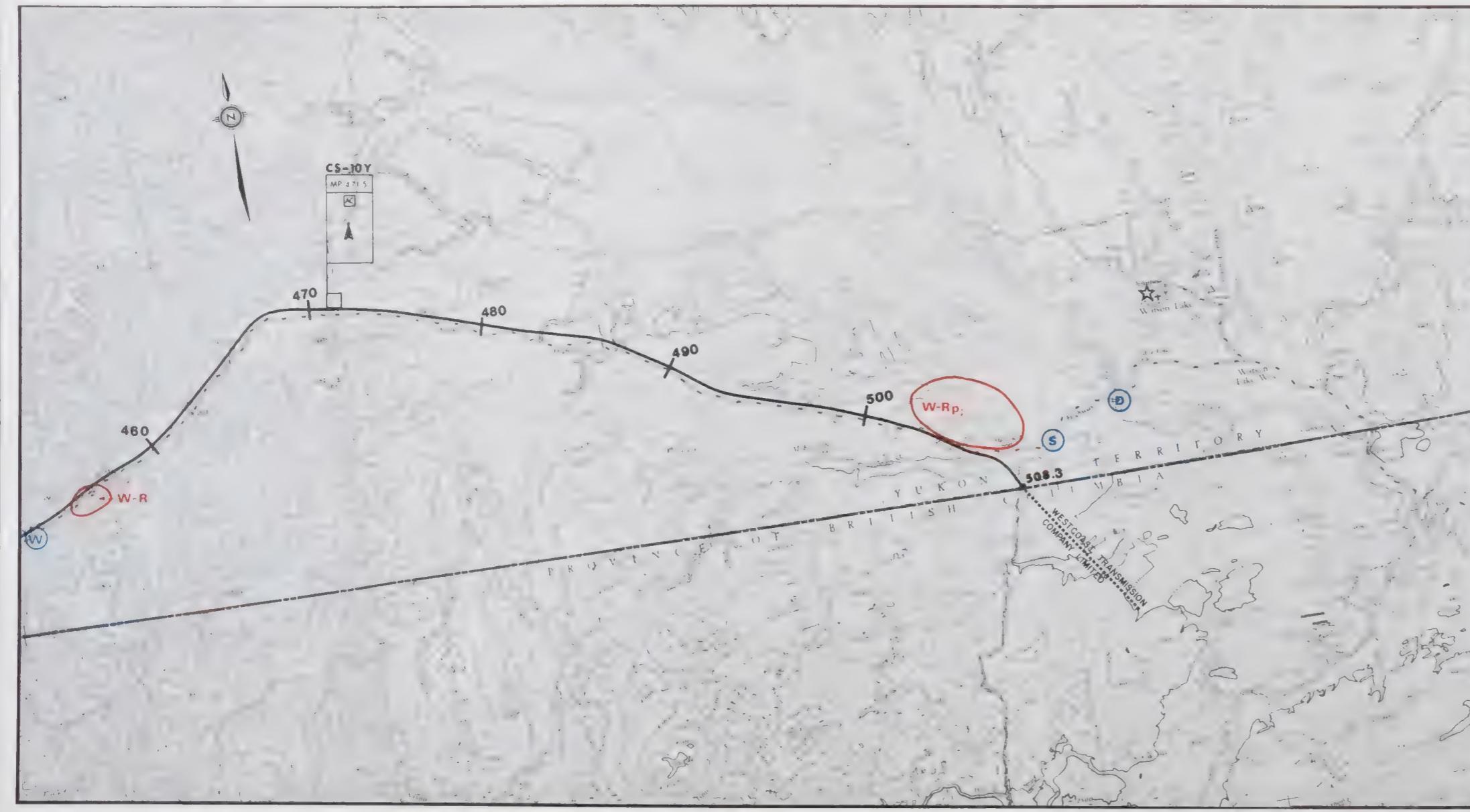
- RAPTORS TREE NESTING SPECIES BREEDING AREA
- RAPTORS TERRITORY BREEDING AREA
- POTENTIAL
- MIGRATION PATHWAY (SWANS & GEESE)

## PIPELINE LEGEND

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE

- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****FISH and BIRDS****FISH**

- MIGRATION ROUTE  
SPAWNING AREA  
NURSERY AREA  
OVERWINTERING AREA

DOMESTIC FISHING  
COMMERCIAL FISHING  
SPORT FISHING

**BIRDS**

- WATERFOWL MIGRATION/STAGING AREA  
WATERFOWL BREEDING AREA  
POSSIBLE RARE AND/OR ENDANGERED SPECIES BREEDING AREA  
POTENTIAL

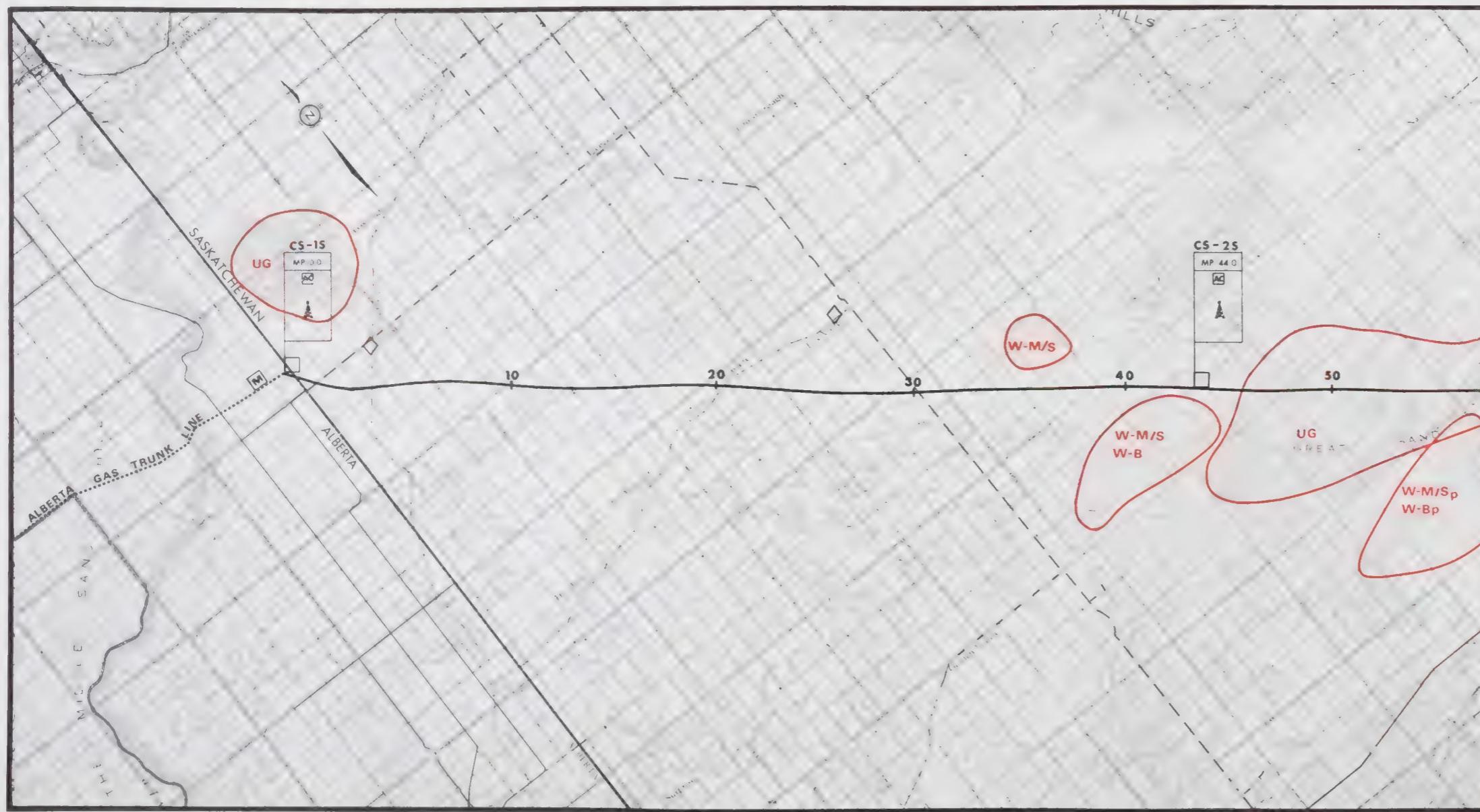
RAPTORS TREE-NESTING SPECIES BREEDING AREA  
RAPTORS CLIFF-NESTING SPECIES BREEDING AREA  
POTENTIAL  
MIGRATION PATHWAY (SWANS & GEESE)

**Pipeline Legend**

- PROPOSED PIPELINE ROUTE  
TELECOMMUNICATIONS BASE STATION  
ACCESS ROAD  
HEAD OFFICE  
AREA OFFICE

COMPRESSOR STATION  
COMPRESSOR STATION WITH CHILLING  
COMPRESSOR STATION WITH AERIAL COOLERS  
COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
**YUKON SECTION**



## LEGENDS

### FISH and BIRDS

#### FISH

- MIGRATION ROUTE
- SPAWNING AREA
- NURSERY AREA
- OVERWINTERING AREA

#### BIRDS

- WATERFOWL MIGRATION/STAGING AREA
- WATERFOWL BREEDING AREA
- POSSIBLE RARE AND/OR ENDANGERED SPECIES BREEDING AREA
- POTENTIAL
- UPLAND GAME BIRD RANGE

- DOMESTIC FISHING
- COMMERCIAL FISHING
- SPORT FISHING

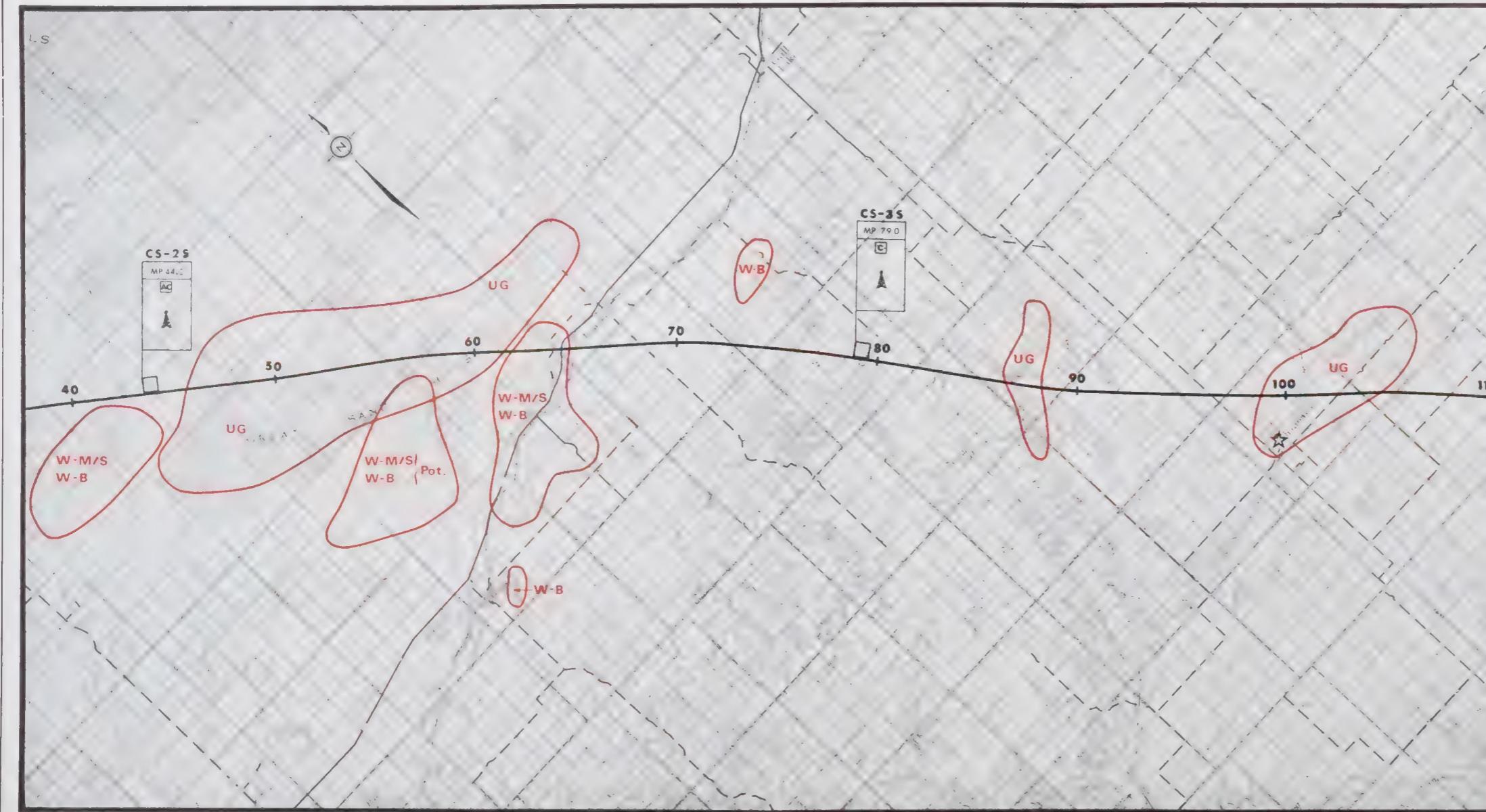
- RAPTORS TREE-NESTING SPECIES BREEDING AREA
- RAPTORS CLIFF-NESTING SPECIES BREEDING AREA
- POTENTIAL
- MIGRATION PATHWAY (SWANS & GEESE)

#### PIPELINE LEGEND

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE

- COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- COMPRESSOR STATION WITH GAS HEATER

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
SASKATCHEWAN SECTION



## LEGENDS

## **FISH and BIRDS**

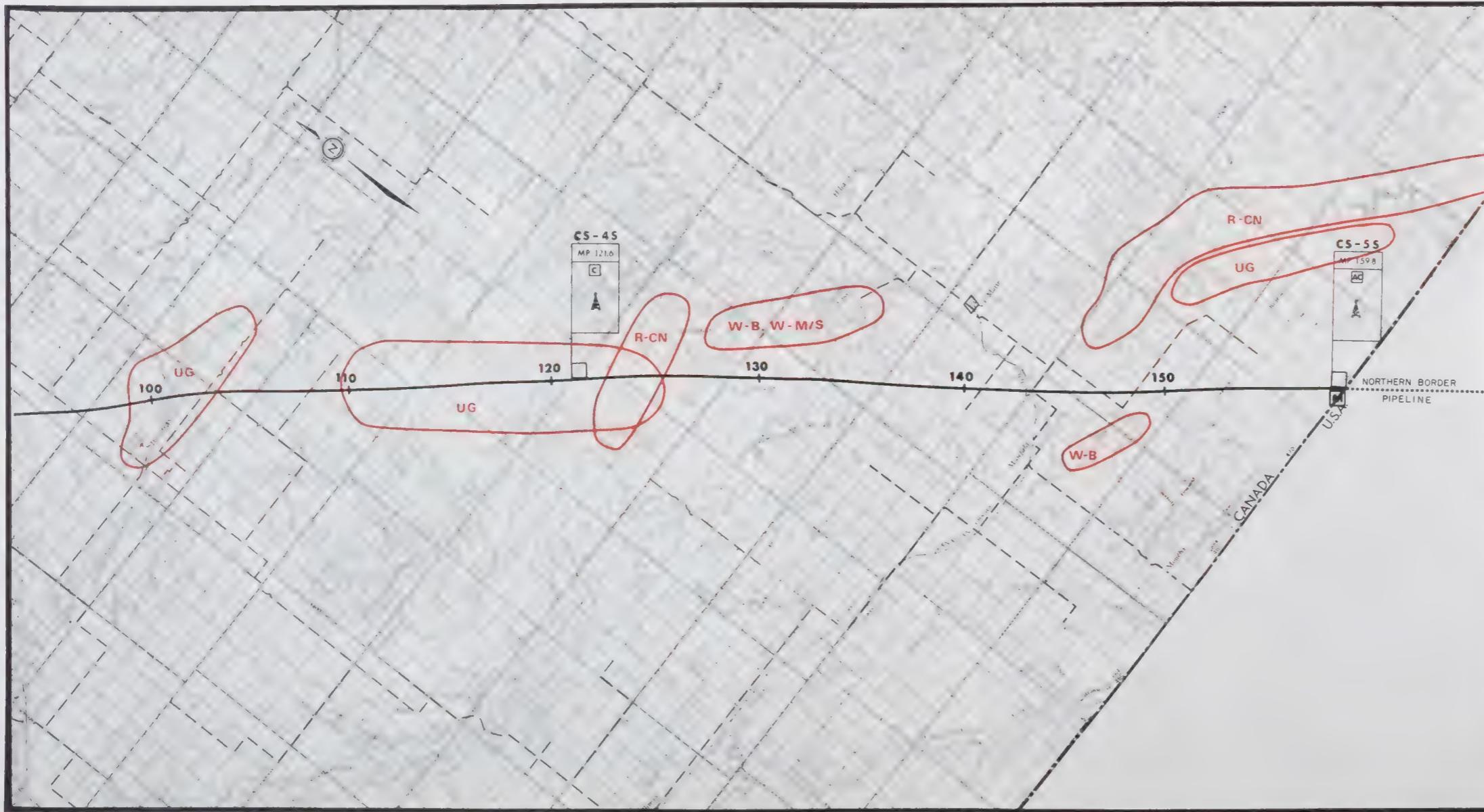
FISH		
MIGRATION ROUTE	(M)	DOMESTIC FISHING
SPAWNING AREA	(S)	COMMERCIAL FISHING
NURSERY AREA	(N)	SPORT FISHING
OVERWINTERING AREA	(W)	

BIRDS			
WATERFOWL MIGRATION/STAGING AREA	W.M.S.	RAPTORS, TREE-NESTING SPECIES BREEDING AREA	R-TN
WATERFOWL BREEDING AREA	W-B	RAPTORS, CLIFF-NESTING SPECIES BREEDING AREA	R-CN
POSSIBLE RARE AND/OR ENDANGERED SPECIES BREEDING AREA	W-R	POTENTIAL	P
POTENTIAL	o	MIGRATION PATHWAY (SWANS & GEESE)	-----o-----
UPLAND GAME BIRD RANGE			

**PIPELINE LEGEND**

PROPOSED PIPELINE ROUTE		COMPRESSOR STATION
TELECOMMUNICATIONS BASE STATION		COMPRESSOR STATION WITH CHILLING
ACCESS ROAD		COMPRESSOR STATION WITH AERIAL COOLERS
HEAD OFFICE		COMPRESSOR STATION WITH GAS HEATER
AREA OFFICE		

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
**SASKATCHEWAN SECTION**



## LEGENDS

### FISH and BIRDS

<b>FISH</b>	
MIGRATION ROUTE	(M)
SPAWNING AREA	(S)
NURSERY AREA	(N)
OVERWINTERING AREA	(O)
<b>BIRDS</b>	
WATERFOWL MIGRATION/STAGING AREA	W-M/S
WATERFOWL BREEDING AREA	W-B
POSSIBLE RARE AND/OR ENDANGERED SPECIES BREEDING AREA	W-R
POTENTIAL	P
UPLAND GAME BIRD RANGE	

2  
3  
4  
5  
6  
7  
8  
9

#### Pipeline Legend

PROPOSED PIPELINE ROUTE	—	COMPRESSOR STATION
TELECOMMUNICATIONS BASE STATION	□	COMPRESSOR STATION WITH CHILLING
ACCESS ROAD	—○—	COMPRESSOR STATION WITH AERIAL COOLERS
HEAD OFFICE	★	COMPRESSOR STATION WITH GAS HEATER
AREA OFFICE	□	

FOOTHILLS PIPE LINES (YUKON) LTD.  
SASKATCHEWAN SECTION



## UNGULATE MAMMALS

### BACKGROUND

The ungulate species considered in the following map series of the Yukon and Saskatchewan include the following:

Woodland Caribou	 — <i>Rangifer tarandus caribou</i> *
Dall's sheep	 — <i>Ovis nivicola dalli</i>
Moose	 — <i>Alces alces gigas</i>
Elk	 — <i>Cervus elaphus canadensis</i>
Mule deer	 — <i>Odocoileus hemionus</i>
Whitetailed deer	 — <i>Odocoileus virginianus</i>
Pronghorn antelope	 — <i>Antilocapra americana</i>

The information presented here indicates known areas of important habitat for all species, and the season when use occurs (summer, winter, and year-round). Winter ranges are highly important to the welfare of the species concerned. Large-scale habitat destruction and disturbance to animals in them must be avoided.

### INFORMATION SOURCES

The Canada Land Use Information map series, prepared by the Departments of Environment and Indian Affairs and Northern Development served as the primary information source for the Yukon.

Information for Saskatchewan was obtained from the Canada Land Inventory (ungulates) and unpublished wildlife habitat maps currently being prepared by the Saskatchewan Ministry of Tourism and Renewable Resources. All findings were updated and supplemented by data from other sources wherever possible. Bibliographic references are listed below.

Department of Regional Economic Expansion. n.d. Canada Land Inventory Map Series, Land Capability for Wildlife — Ungulates. Scale 1: 250,000. Ottawa

Department of Tourism and Renewable Resources, Saskatchewan. 1976. Terrestrial Wildlife Habitat Inventory Maps (unpublished). Scale 1: 250,000. Saskatoon.

Environment Canada. 1973. Land Use Information Map Series (Yukon). Scale 1: 250,000. Ottawa.

## FURBEARERS

### BACKGROUND

The following maps indicate locations of important habitat for two major aquatic furbearers, beaver (*Castor canadensis canadensis*), and muskrat (*Ondatra zibethicus spatulatus*) and areas used by grizzly bears (*Ursus arctos horribilis*) when digging for roots. Also included are general locations of known grizzly bear denning areas, and a suspected wolf (*Canis lupus*) denning area near Squanga Lake. There are no areas of unusual significance to furbearers along the route in Saskatchewan.

### INFORMATION SOURCES

The Canada Land Use Information map series, prepared by the Departments of Environment and Indian Affairs and Northern Development served as the primary information source for the Yukon. Inventories were updated wherever possible and supplemented by data from other sources. Bibliographic references are listed below.

Environment Canada. 1973. Land Use Information Map Series (Yukon). Scale 1: 250,000. Ottawa

Pearson, A.M. 1975. The northern interior grizzly bear *Ursus arctos* L. Canadian Wildlife Service Report Series. Number 34. 84 pp.

Schultz, C.D. and Co. Ltd. 1976. Preliminary environmental impact assessment of the proposed Alcan Pipeline. Vol. 1 (Beaver Creek to Zama Lake). Report prepared for Gulf Interstate Engineering Co. 240 pp.

Slaney, F.F. and Co. Ltd. 1976. Application of Alcan Pipeline Co., exhibit Z-1, Vol. 2, Canada, Yukon to Zama. Report prepared for Gulf Interstate Engineering Co. 493 pp.

Youngman, P.M. 1975. Mammals of the Yukon Territory — National Museum of Canada, Ottawa. 192 pp.



## LEGENDS

### MAMMALS

#### AQUATIC FURBEARER HABITAT

BEAVER



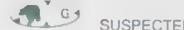
B

MUSKRAT

M

#### FURBEARERS HABITAT

SPRING & SUMMER GRIZZLY BEAR DIGGING AREAS (ROOTS)



G

#### UNGULATE MAMMALS HABITAT

DALL SHEEP YEAR ROUND RANGE



D

DALL SHEEP WINTER RANGE



D

CARIBOU YEAR ROUND RANGE



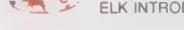
C

CARIBOU WINTER RANGE



C

MOOSE YEAR ROUND RANGE



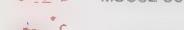
M

MOOSE WINTER RANGE



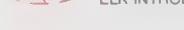
M

MOOSE SUMMER RANGE



M

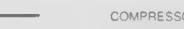
ELK INTRODUCED RANGE



E

#### Pipeline Legend

PROPOSED PIPELINE ROUTE



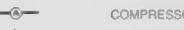
-

COMPRESSOR STATION



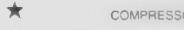
▲

COMPRESSOR STATION WITH CHILLING



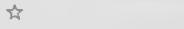
□

COMPRESSOR STATION WITH AERIAL COOLERS



△

COMPRESSOR STATION WITH GAS HEATER



○

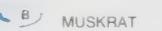
**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

## LEGENDS

**MAMMALS**

## AQUATIC FURBEARER HABITAT

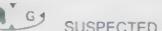
BEAVER



MUSKRAT



## FURBEARERS HABITAT

SPRING & SUMMER GRIZZLY BEAR  
DIGGING AREAS (ROOTS)

## GRIZZLY BEAR DENNING AREA

## UNGULATE MAMMALS HABITAT

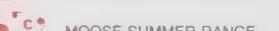
DALL SHEEP YEAR ROUND RANGE



DALL SHEEP WINTER RANGE



CARIBOU YEAR ROUND RANGE



CARIBOU WINTER RANGE



## PIPELINE LEGEND

PROPOSED PIPELINE ROUTE



TELECOMMUNICATIONS BASE STATION



ACCESS ROAD



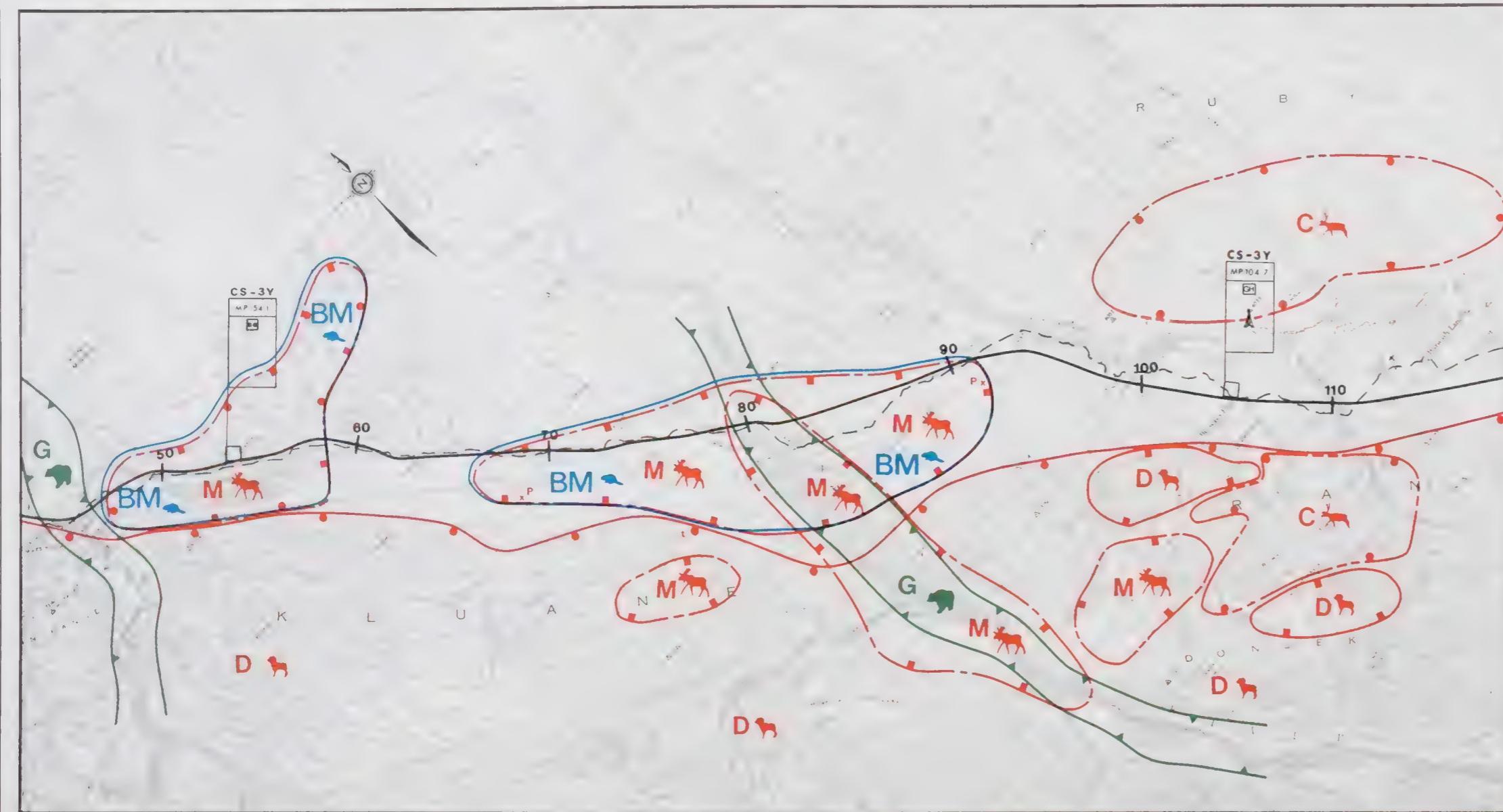
HEAD OFFICE

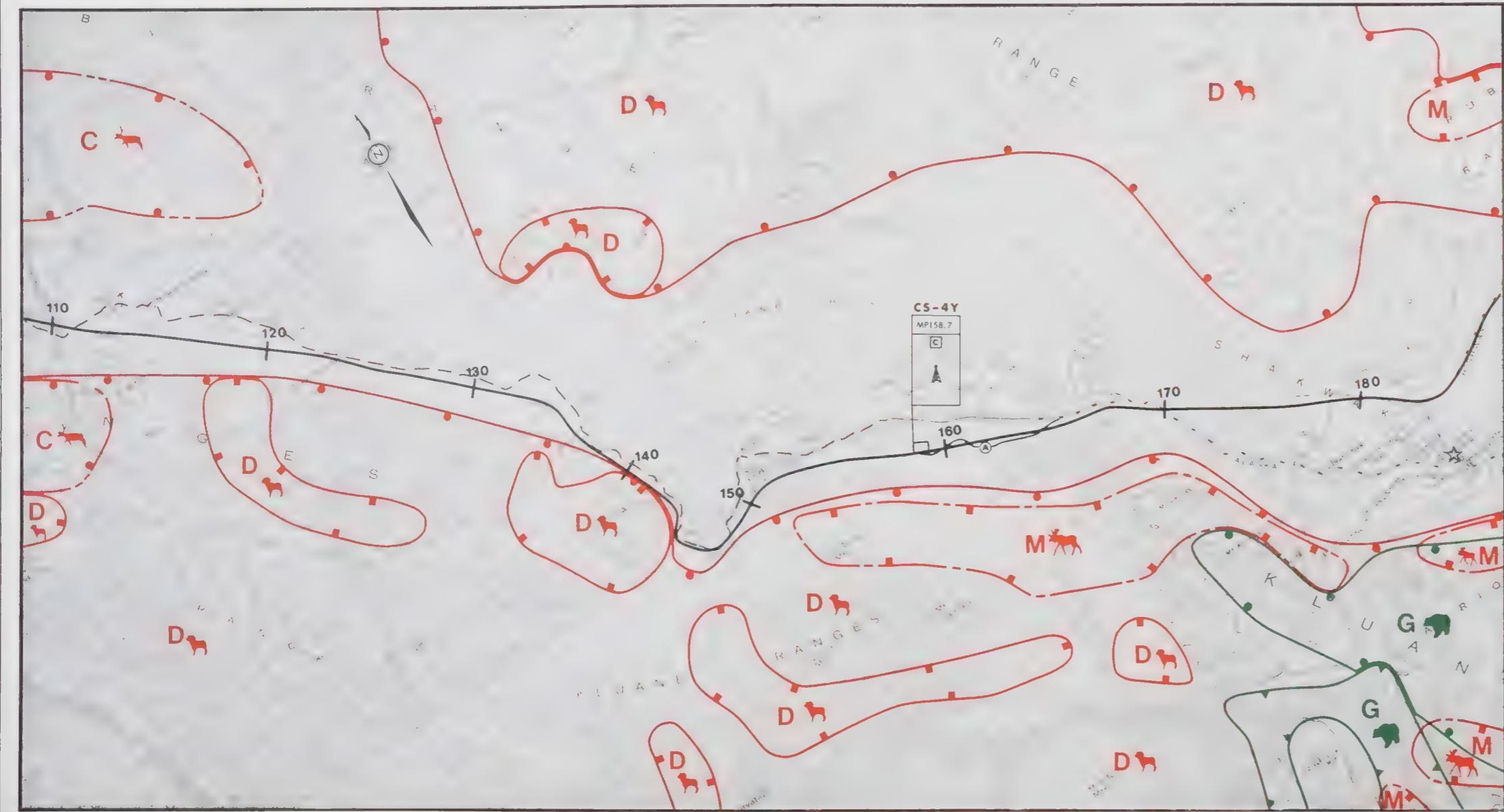


AREA OFFICE



**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION





## LEGENDS

**MAMMALS**

## AQUATIC FURBEARER HABITAT

BEAVER



M

## FURBEARERS HABITAT

SPRING & SUMMER GRIZZLY BEAR  
DIGGING AREAS (ROOTS)

W

## GRIZZLY BEAR DENNING AREA



G

## UNGULATE MAMMALS HABITAT

DALL SHEEP YEAR ROUND RANGE



M

DALL SHEEP WINTER RANGE



D

CARIBOU YEAR ROUND RANGE



C

CARIBOU WINTER RANGE



E

## PIPELINE LEGEND

PROPOSED PIPELINE ROUTE



C

TELECOMMUNICATIONS BASE STATION



AC

ACCESS ROAD



A

HEAD OFFICE



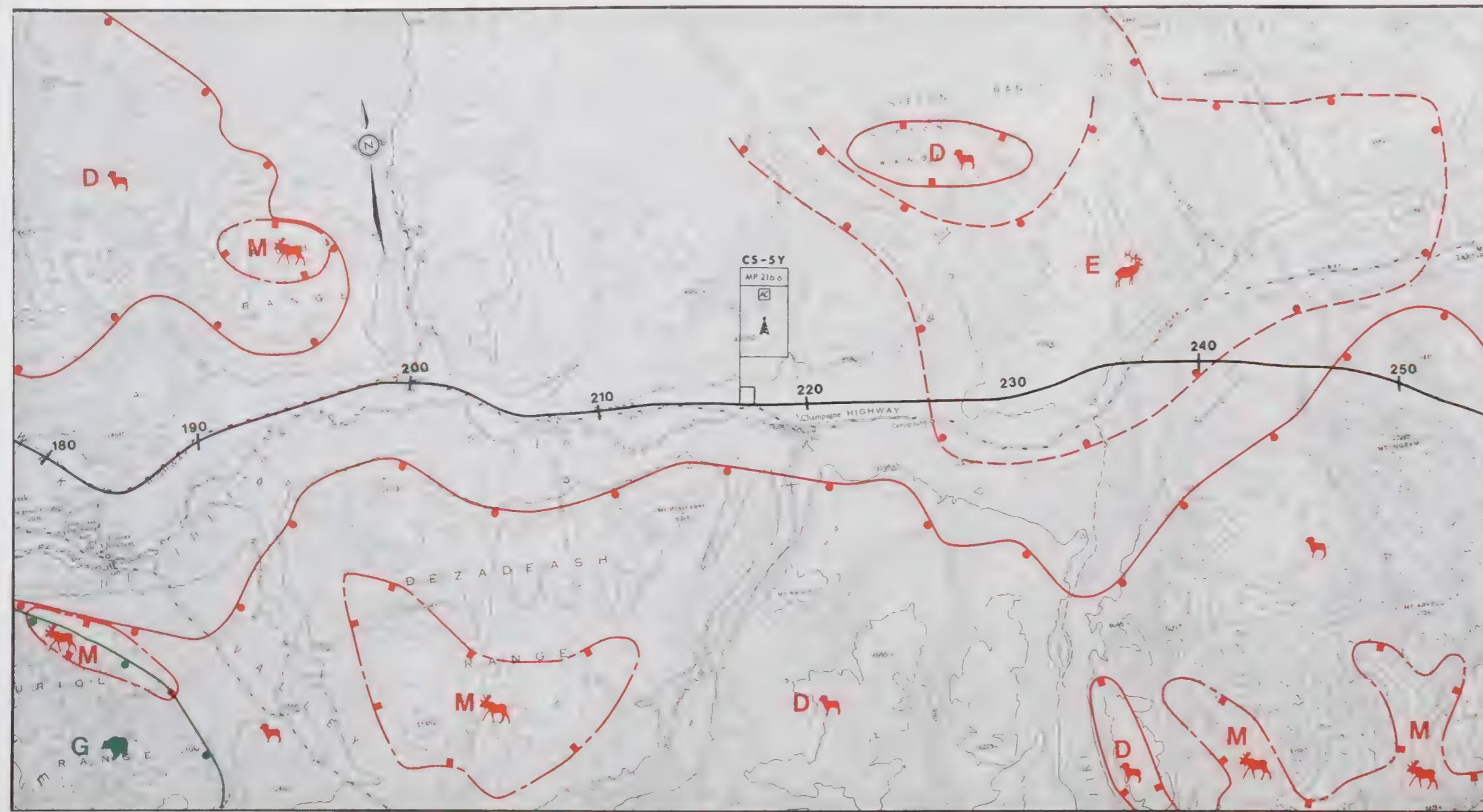
H

AREA OFFICE



A

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION

**LEGENDS****MAMMALS****AQUATIC FURBEARER HABITAT**

BEAVER

B MUSKRAT

**FURBEARERS HABITAT**SPRING & SUMMER GRIZZLY BEAR  
DIGGING AREAS (ROOTS)

G W SUSPECTED WOLF DENNING

**UNGULATE MAMMALS HABITAT**

DALL SHEEP YEAR ROUND RANGE

D MOOSE YEAR ROUND RANGE

DALL SHEEP WINTER RANGE

M MOOSE WINTER RANGE

CARIBOU YEAR ROUND RANGE

C MOOSE SUMMER RANGE

CARIBOU WINTER RANGE

E ELK INTRODUCED RANGE

**Pipeline Legend**

PROPOSED PIPELINE ROUTE

COMPRESSOR STATION

TELECOMMUNICATIONS BASE STATION

COMPRESSOR STATION WITH CHILLING

ACCESS ROAD

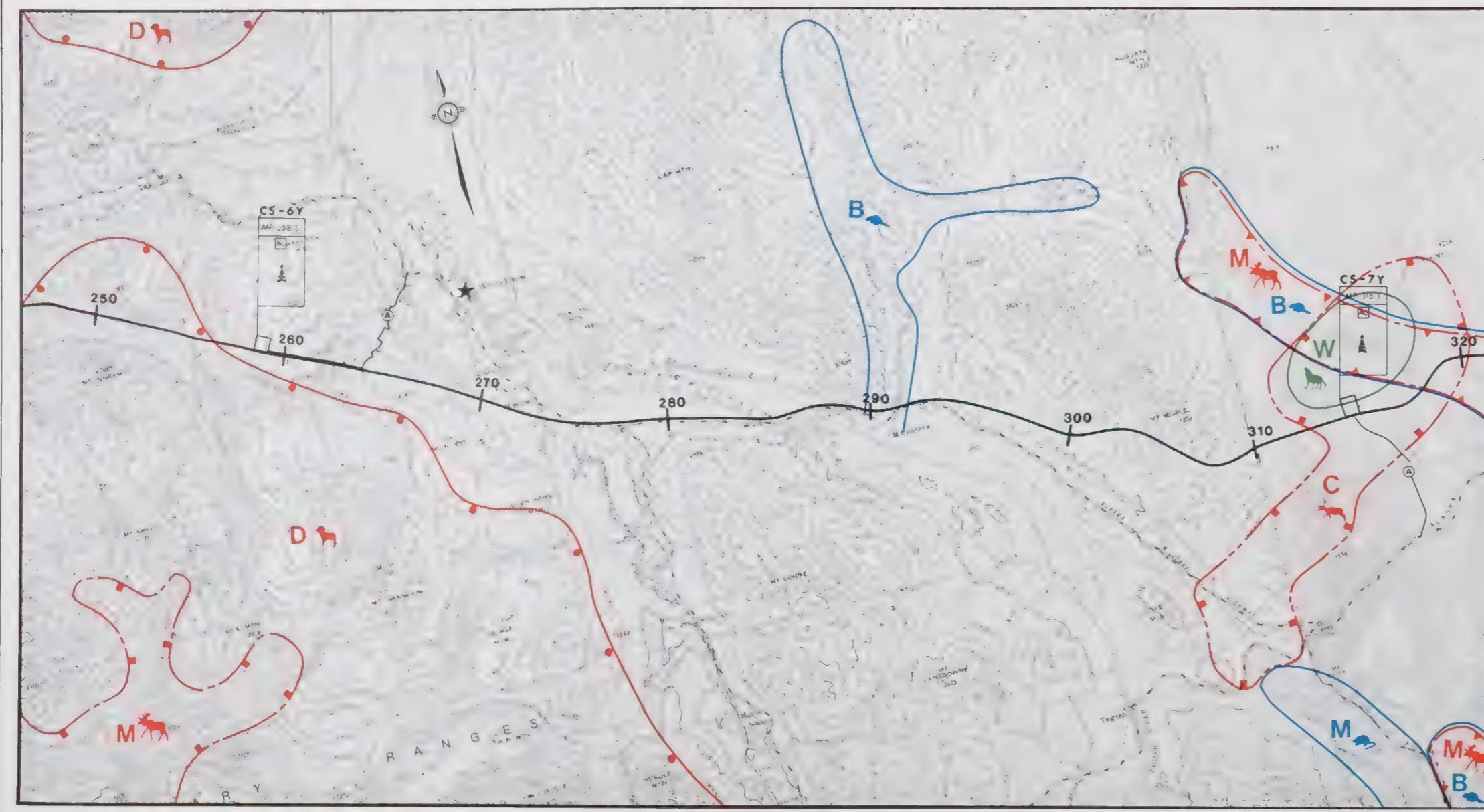
COMPRESSOR STATION WITH AERIAL COOLERS

HEAD OFFICE

COMPRESSOR STATION WITH GAS HEATER

AREA OFFICE

**FOOTHILLS PIPE LINES (YUKON) LTD.  
YUKON SECTION**



## LEGENDS MAMMALS

### AQUATIC FURBEARER HABITAT

BEAVER

B MUSKRAT

### FURBEARERS HABITAT

SPRING & SUMMER GRIZZLY BEAR  
DIGGING AREAS (ROOTS)

GRIZZLY BEAR DENNING AREA

### UNGULATE MAMMAL HABITAT

DALL SHEEP YEAR ROUND RANGE

DALL SHEEP WINTER RANGE

CARIBOU YEAR ROUND RANGE

CARIBOU WINTER RANGE

Moose Year Round Range

Moose Winter Range

Moose Summer Range

Elk Introduced Range

### PIPELINE LEGEND

PROPOSED PIPELINE ROUTE

COMPRESSOR STATION

TELECOMMUNICATIONS BASE STATION

COMPRESSOR STATION WITH CHILLING

ACCESS ROAD

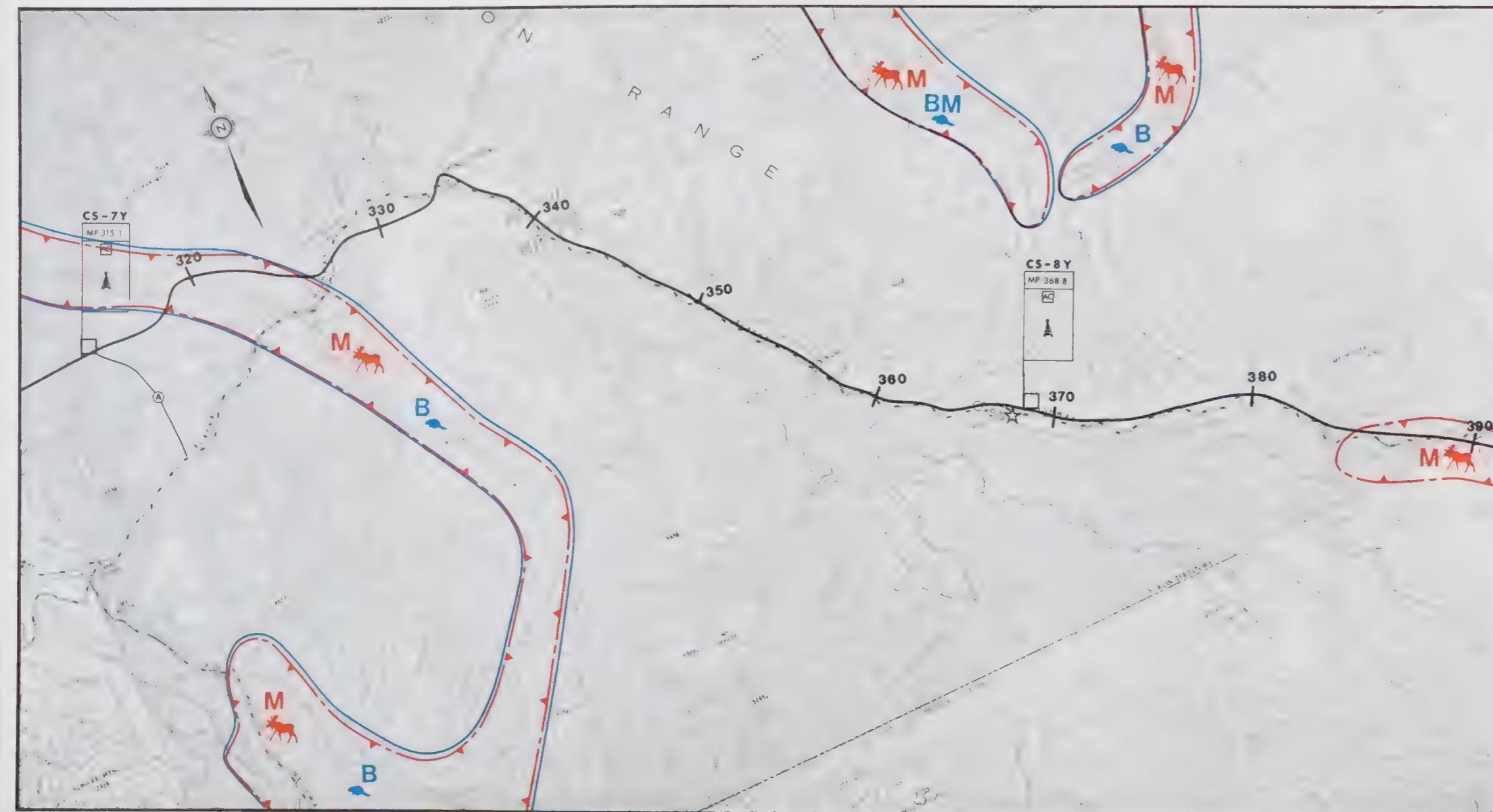
COMPRESSOR STATION WITH AERIAL COOLERS

HEAD OFFICE

COMPRESSOR STATION WITH GAS HEATER

AREA OFFICE

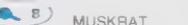
**FOOTHILLS PIPE LINES (YUKON) LTD.**  
YUKON SECTION



## LEGENDS MAMMALS

### AQUATIC FURBEARER HABITAT

BEAVER



MUSKRAT



### FURBEARERS HABITAT

SPRING & SUMMER GRIZZLY BEAR DIGGING AREAS (ROOTS)



GRIZZLY BEAR DENNING AREA



### UNGULATE MAMMALS HABITAT

DALL SHEEP YEAR ROUND RANGE



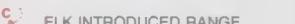
DALL SHEEP WINTER RANGE



CARIBOU YEAR ROUND RANGE



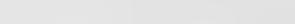
CARIBOU WINTER RANGE



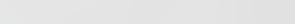
MOOSE YEAR ROUND RANGE



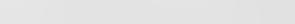
MOOSE WINTER RANGE



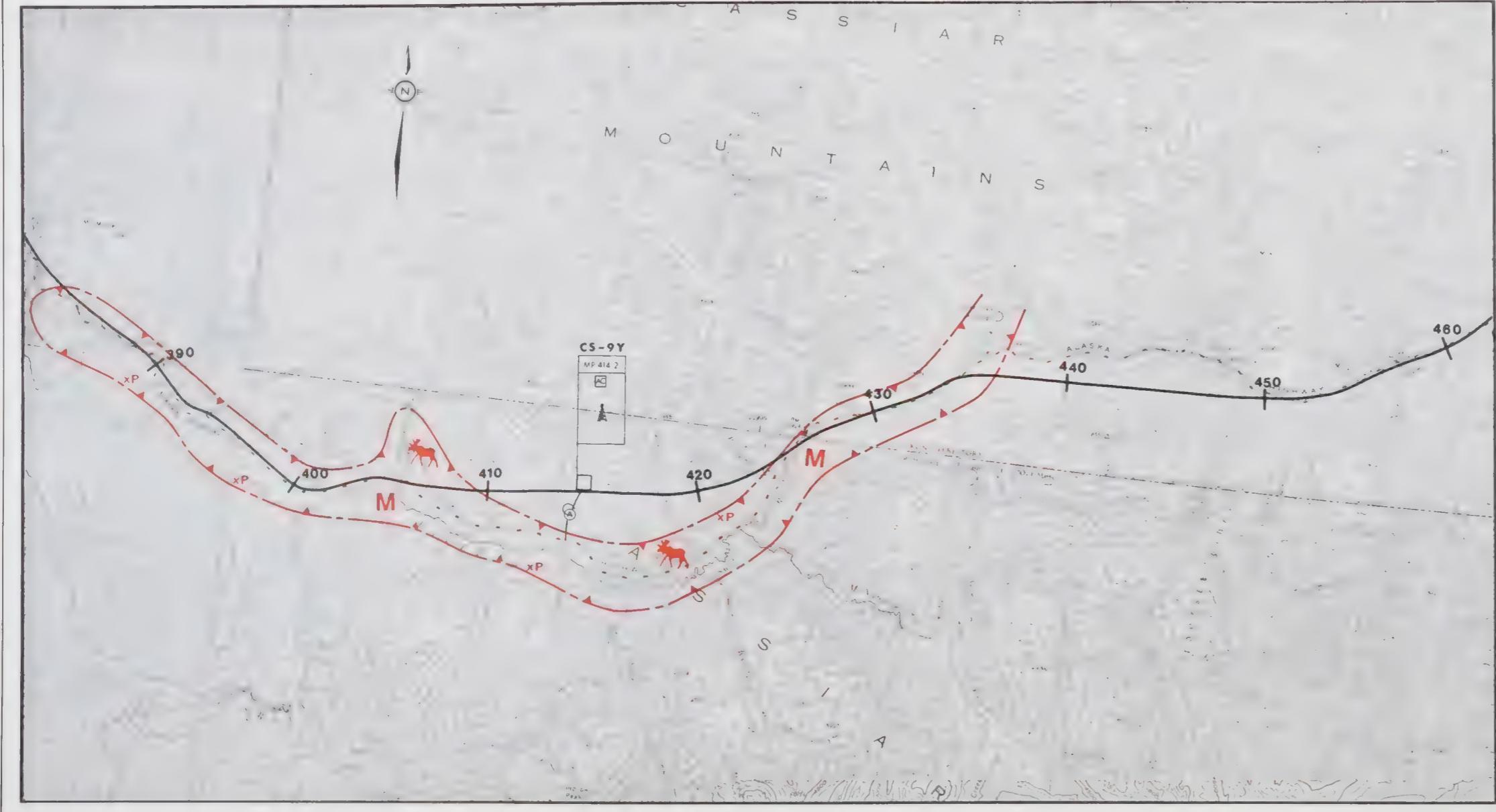
MOOSE SUMMER RANGE



ELK INTRODUCED RANGE



### FOOTHILLS PIPE LINES (YUKON) LTD. YUKON SECTION



## LEGENDS

### MAMMALS

#### AQUATIC FURBEARER HABITAT

BEAVER



M

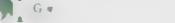
#### FURBEARERS HABITAT

SPRING & SUMMER GRIZZLY BEAR  
DIGGING AREAS (ROOTS)



W

#### GRIZZLY BEAR DENNING AREA



G

#### UNGULATE MAMMALS HABITAT

DALL SHEEP YEAR ROUND RANGE



D

DALL SHEEP WINTER RANGE



D

CARIBOU YEAR ROUND RANGE



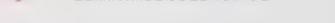
C

CARIBOU WINTER RANGE



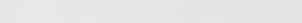
C

MOOSE YEAR ROUND RANGE



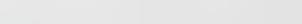
M

MOOSE WINTER RANGE



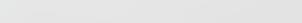
M

MOOSE SUMMER RANGE



M

ELK INTRODUCED RANGE



E

#### Pipeline Legend

PROPOSED PIPELINE ROUTE



—

TELECOMMUNICATIONS BASE STATION



□

ACCESS ROAD



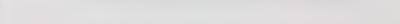
—

HEAD OFFICE



★

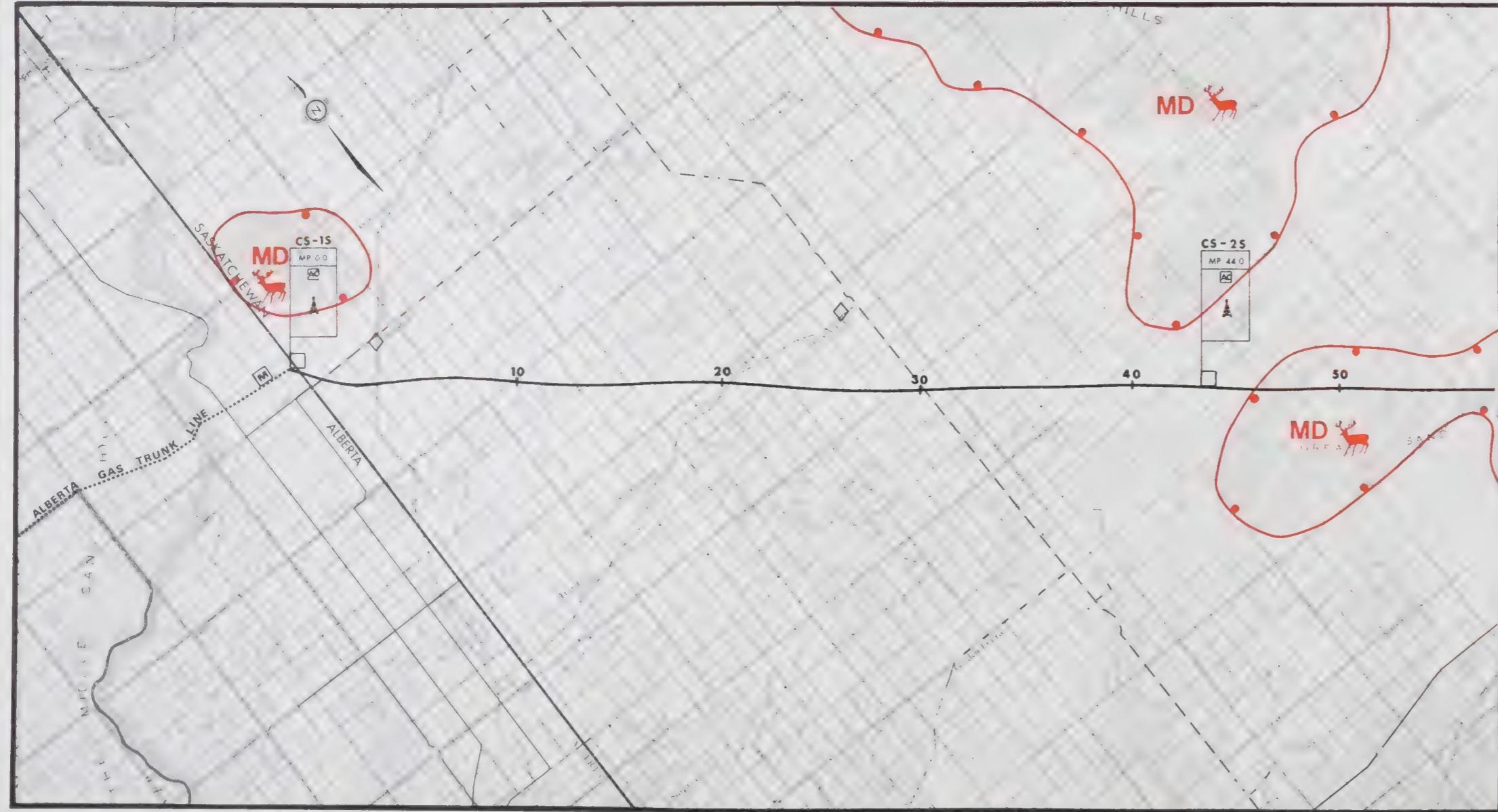
AREA OFFICE



★

**FOOTHILLS PIPE LINES (YUKON) LTD.**  
**YUKON SECTION**





## LEGENDS

### MAMMALS

UNGULATE MAMMAL HABITAT

MULE DEER YEAR ROUND RANGE

WHITE TAILED DEER RANGE

ANTELOPE YEAR ROUND RANGE

ANTELOPE WINTER RANGE



NOTE: BOUNDARIES SHOWN ARE APPROXIMATE. THERE IS

CONSIDERABLE OVERLAP IN RANGES OF ALL THREE SPECIES.

ONLY PRIME HABITATS ARE INDICATED

## Pipeline Legend

PROPOSED PIPELINE ROUTE

TELECOMMUNICATIONS BASE STATION

ACCESS ROAD

HEAD OFFICE

AREA OFFICE

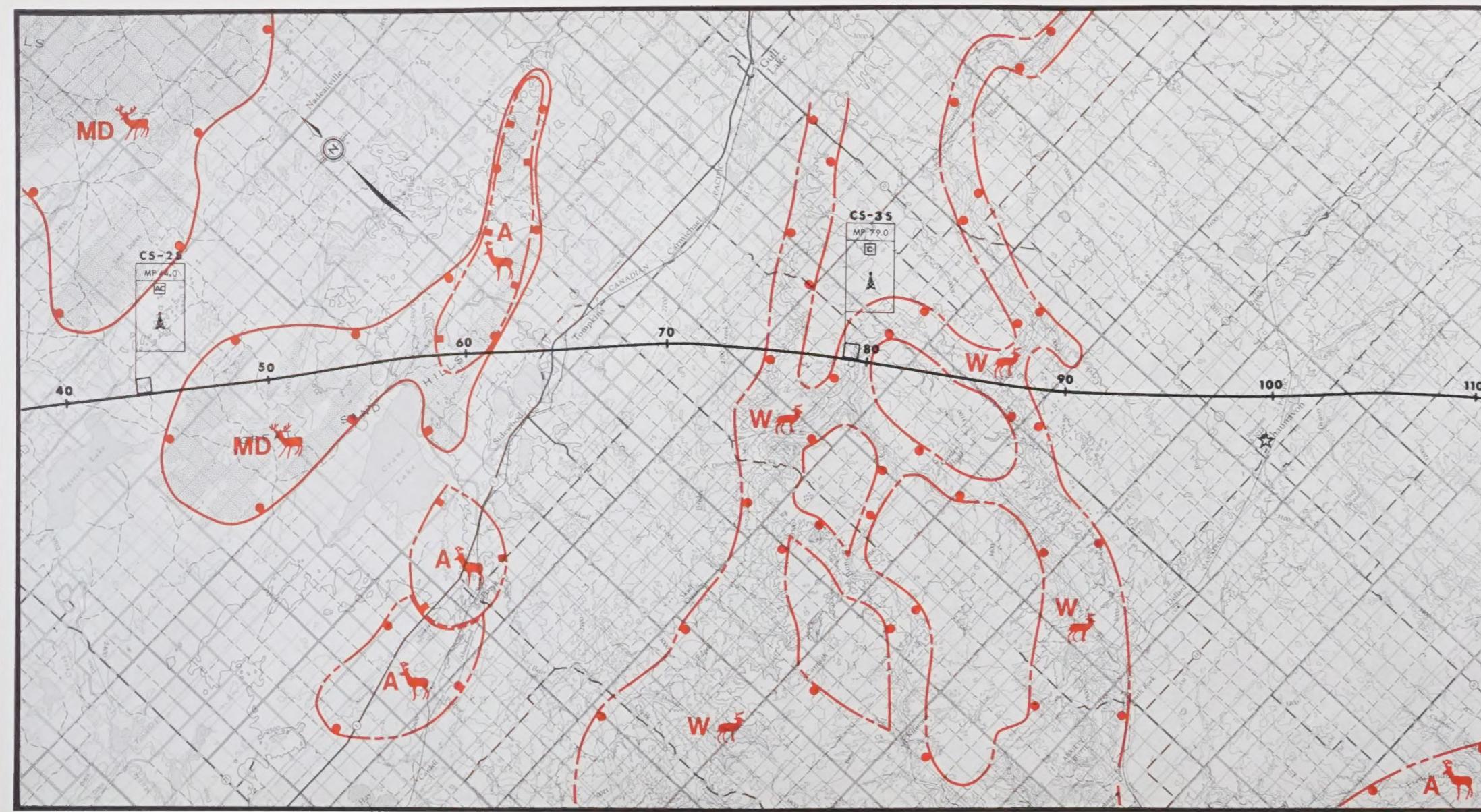
COMPRESSOR STATION

COMPRESSOR STATION WITH CHILLING

COMPRESSOR STATION WITH AERIAL COOLERS

COMPRESSOR STATION WITH GAS HEATER

FOOTHILLS PIPE LINES (YUKON) LTD.  
SASKATCHEWAN SECTION



## LEGENDS MAMMALS

### UNGULATE MAMMAL HABITAT



MULE DEER YEAR ROUND RANGE

WHITE TAILED DEER RANGE

ANTELOPE YEAR ROUND RANGE

ANTELOPE WINTER RANGE

NOTE: BOUNDARIES SHOWN ARE APPROXIMATE. THERE IS  
CONSIDERABLE OVERLAP IN RANGES OF ALL THREE SPECIES.  
ONLY PRIME HABITATS ARE INDICATED.

### Pipeline Legend

- PROPOSED PIPELINE ROUTE
- TELECOMMUNICATIONS BASE STATION
- ACCESS ROAD
- HEAD OFFICE
- AREA OFFICE

- ▲ COMPRESSOR STATION
- COMPRESSOR STATION WITH CHILLING
- COMPRESSOR STATION WITH AERIAL COOLERS
- ★ COMPRESSOR STATION WITH GAS HEATER

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TELECOMMUNICATIONS BASE STATION

ACCESS ROAD

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